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# Appendix G

## Noise Data

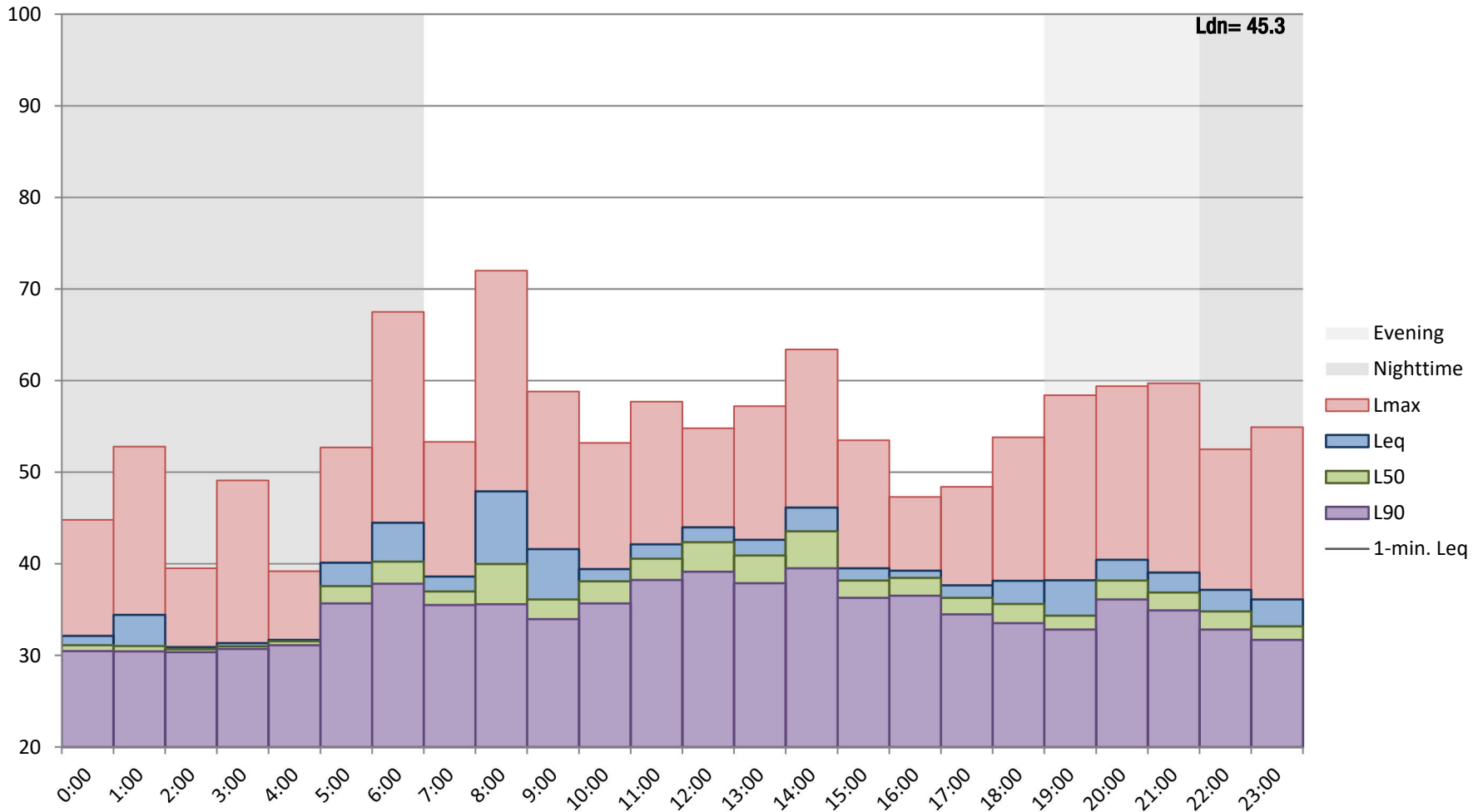


**Appendix G-3  
Long-Term 24 Hour Continuous Noise Monitoring**

**Project:** Diamond Springs Community Park  
**Date:** May 08, 2023 to May 08, 2023  
**Site:** LT1-A Northern Portion of Community Park Parcels

| Hour  | Leq  | Lmax | L50  | L90  |                              | Lowermost Level            |      |      |      |
|-------|------|------|------|------|------------------------------|----------------------------|------|------|------|
|       |      |      |      |      |                              | Leq                        | Lmax | L50  | L90  |
| 0:00  | 32.1 | 44.8 | 31.1 | 30.5 |                              |                            |      |      |      |
| 1:00  | 34.4 | 52.8 | 31.0 | 30.5 | Daytime (7 a.m. - 7 p.m.)    | 37.7                       | 47.3 | 34.4 | 32.8 |
| 2:00  | 30.9 | 39.5 | 30.7 | 30.4 | Nighttime (10 p.m. - 7 a.m.) | 30.9                       | 39.2 | 30.7 | 30.4 |
| 3:00  | 31.3 | 49.1 | 31.0 | 30.7 |                              |                            |      |      |      |
| 4:00  | 31.7 | 39.2 | 31.5 | 31.1 |                              |                            |      |      |      |
| 5:00  | 40.1 | 52.7 | 37.6 | 35.7 |                              |                            |      |      |      |
| 6:00  | 44.5 | 67.5 | 40.2 | 37.8 |                              |                            |      |      |      |
| 7:00  | 38.6 | 53.3 | 37.0 | 35.5 | Daytime (7 a.m. - 7 p.m.)    | 42.2                       | 56.7 | 38.4 | 36.0 |
| 8:00  | 47.9 | 72.0 | 40.0 | 35.6 | Nighttime (10 p.m. - 7 a.m.) | 37.9                       | 50.3 | 33.5 | 32.3 |
| 9:00  | 41.6 | 58.8 | 36.1 | 34.0 |                              |                            |      |      |      |
| 10:00 | 39.4 | 53.2 | 38.1 | 35.7 |                              |                            |      |      |      |
| 11:00 | 42.1 | 57.7 | 40.6 | 38.2 |                              |                            |      |      |      |
| 12:00 | 44.0 | 54.8 | 42.4 | 39.1 |                              |                            |      |      |      |
| 13:00 | 42.6 | 57.2 | 40.9 | 37.9 | Daytime (7 a.m. - 7 p.m.)    | 47.9                       | 72.0 | 43.5 | 39.5 |
| 14:00 | 46.1 | 63.4 | 43.5 | 39.5 | Nighttime (10 p.m. - 7 a.m.) | 44.5                       | 67.5 | 40.2 | 37.8 |
| 15:00 | 39.5 | 53.5 | 38.2 | 36.3 |                              |                            |      |      |      |
| 16:00 | 39.2 | 47.3 | 38.5 | 36.5 |                              |                            |      |      |      |
| 17:00 | 37.7 | 48.4 | 36.3 | 34.5 |                              |                            |      |      |      |
| 18:00 | 38.1 | 53.8 | 35.6 | 33.5 |                              |                            |      |      |      |
| 19:00 | 38.2 | 58.4 | 34.4 | 32.8 |                              |                            |      |      |      |
| 20:00 | 40.5 | 59.4 | 38.2 | 36.1 |                              |                            |      |      |      |
| 21:00 | 39.1 | 59.7 | 36.9 | 34.9 |                              |                            |      |      |      |
| 22:00 | 37.2 | 52.5 | 34.8 | 32.8 |                              |                            |      |      |      |
| 23:00 | 36.1 | 54.9 | 33.2 | 31.7 |                              |                            |      |      |      |
|       |      |      |      |      |                              | <b>Energy Distribution</b> |      |      |      |
|       |      |      |      |      |                              | Daytime                    |      | 82%  |      |
|       |      |      |      |      |                              | Nighttime                  |      | 18%  |      |
|       |      |      |      |      |                              | <b>Calculated Ldn, dBA</b> |      |      |      |
|       |      |      |      |      |                              | 45.3                       |      |      |      |

**Appendix G-3**  
 Diamond Springs Community Park - LT1-A - Northern Portion of Community Park Parcels  
 May 08, 2023 to May 08, 2023

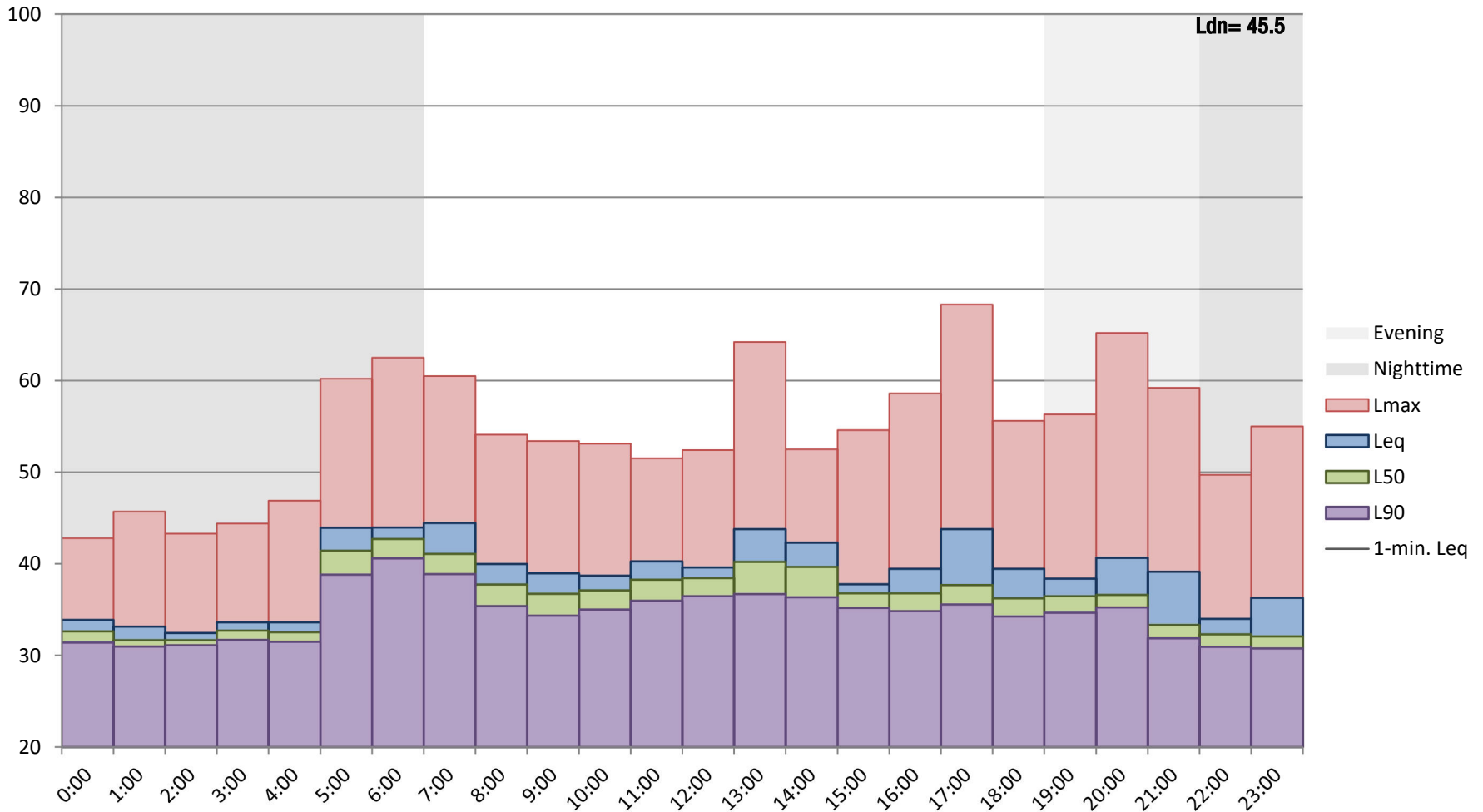


**Appendix G-3**  
**Long-Term 24 Hour Continuous Noise Monitoring**

**Project:** Diamond Springs Community Park  
**Date:** May 09, 2023 to May 09, 2023  
**Site:** LT1-B Northern Portion of Community Park Parcels

| Hour  | Leq  | Lmax | L50  | L90  |                              | Lowermost Level            |      |      |      |
|-------|------|------|------|------|------------------------------|----------------------------|------|------|------|
|       |      |      |      |      |                              | Leq                        | Lmax | L50  | L90  |
| 0:00  | 33.9 | 42.8 | 32.6 | 31.4 |                              |                            |      |      |      |
| 1:00  | 33.1 | 45.7 | 31.7 | 31.0 | Daytime (7 a.m. - 7 p.m.)    | 37.8                       | 51.5 | 33.3 | 31.9 |
| 2:00  | 32.5 | 43.3 | 31.7 | 31.1 | Nighttime (10 p.m. - 7 a.m.) | 32.5                       | 42.8 | 31.7 | 30.8 |
| 3:00  | 33.6 | 44.4 | 32.7 | 31.7 |                              |                            |      |      |      |
| 4:00  | 33.6 | 46.9 | 32.5 | 31.5 |                              |                            |      |      |      |
| 5:00  | 43.9 | 60.2 | 41.4 | 38.8 |                              |                            |      |      |      |
| 6:00  | 44.0 | 62.5 | 42.7 | 40.6 |                              |                            |      |      |      |
| 7:00  | 44.4 | 60.5 | 41.1 | 38.9 | Daytime (7 a.m. - 7 p.m.)    | 41.0                       | 57.3 | 37.5 | 35.4 |
| 8:00  | 40.0 | 54.1 | 37.8 | 35.4 | Nighttime (10 p.m. - 7 a.m.) | 38.7                       | 50.1 | 34.4 | 33.1 |
| 9:00  | 39.0 | 53.4 | 36.7 | 34.3 |                              |                            |      |      |      |
| 10:00 | 38.7 | 53.1 | 37.1 | 35.0 |                              |                            |      |      |      |
| 11:00 | 40.3 | 51.5 | 38.3 | 36.0 |                              |                            |      |      |      |
| 12:00 | 39.6 | 52.4 | 38.4 | 36.5 |                              |                            |      |      |      |
| 13:00 | 43.8 | 64.2 | 40.2 | 36.7 | Daytime (7 a.m. - 7 p.m.)    | 44.4                       | 68.3 | 41.1 | 38.9 |
| 14:00 | 42.3 | 52.5 | 39.6 | 36.3 | Nighttime (10 p.m. - 7 a.m.) | 44.0                       | 62.5 | 42.7 | 40.6 |
| 15:00 | 37.8 | 54.6 | 36.8 | 35.2 |                              |                            |      |      |      |
| 16:00 | 39.4 | 58.6 | 36.8 | 34.8 |                              |                            |      |      |      |
| 17:00 | 43.8 | 68.3 | 37.7 | 35.6 |                              |                            |      |      |      |
| 18:00 | 39.4 | 55.6 | 36.2 | 34.2 |                              |                            |      |      |      |
| 19:00 | 38.4 | 56.3 | 36.5 | 34.7 |                              |                            |      |      |      |
| 20:00 | 40.6 | 65.2 | 36.6 | 35.2 |                              |                            |      |      |      |
| 21:00 | 39.1 | 59.2 | 33.3 | 31.9 |                              |                            |      |      |      |
| 22:00 | 34.0 | 49.7 | 32.3 | 31.0 |                              |                            |      |      |      |
| 23:00 | 36.3 | 55.0 | 32.1 | 30.8 |                              |                            |      |      |      |
|       |      |      |      |      |                              | <b>Energy Distribution</b> |      |      |      |
|       |      |      |      |      |                              | Daytime                    |      | 74%  |      |
|       |      |      |      |      |                              | Nighttime                  |      | 26%  |      |
|       |      |      |      |      |                              | <b>Calculated Ldn, dBA</b> |      |      |      |
|       |      |      |      |      |                              | 45.5                       |      |      |      |

**Appendix G-3**  
 Diamond Springs Community Park - LT1-B - Northern Portion of Community Park Parcels  
 May 09, 2023 to May 09, 2023



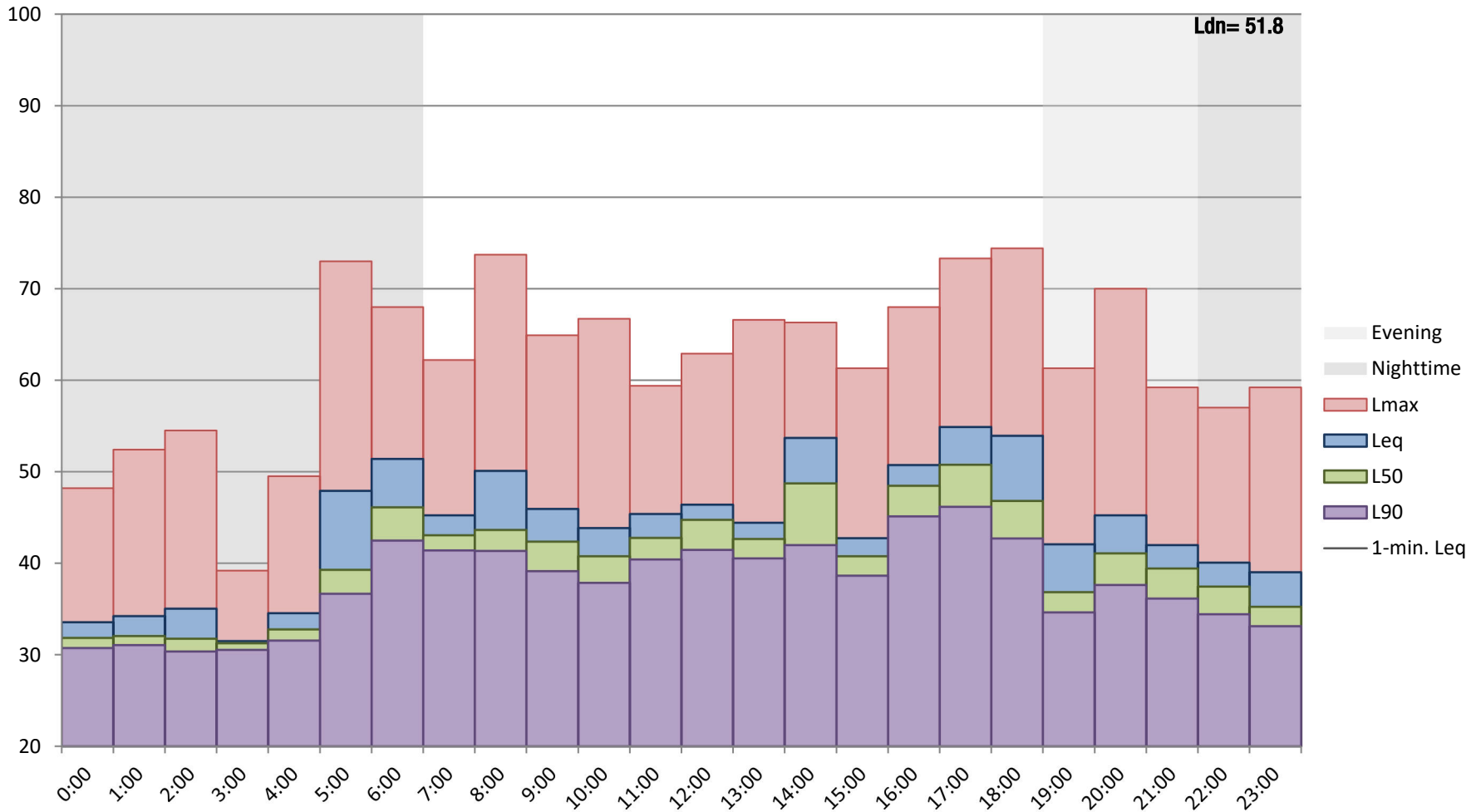
**Appendix G-3**  
**Long-Term 24 Hour Continuous Noise Monitoring**

**Project:** Diamond Springs Community Park  
**Date:** May 08, 2023 to May 08, 2023  
**Site:** LT2-A Southwestern Corner of DSCP and Elementary School

| Hour  | Leq  | Lmax | L50  | L90  | Lowermost Level              |      |      |      |      |
|-------|------|------|------|------|------------------------------|------|------|------|------|
|       |      |      |      |      | Leq                          | Lmax | L50  | L90  |      |
| 0:00  | 33.5 | 48.2 | 31.8 | 30.7 |                              |      |      |      |      |
| 1:00  | 34.2 | 52.4 | 32.1 | 31.0 |                              |      |      |      |      |
| 2:00  | 35.0 | 54.5 | 31.8 | 30.4 |                              |      |      |      |      |
| 3:00  | 31.5 | 39.2 | 31.3 | 30.5 |                              |      |      |      |      |
| 4:00  | 34.6 | 49.5 | 32.8 | 31.5 |                              |      |      |      |      |
| 5:00  | 47.9 | 73.0 | 39.3 | 36.7 |                              |      |      |      |      |
| 6:00  | 51.4 | 68.0 | 46.1 | 42.5 |                              |      |      |      |      |
| 7:00  | 45.2 | 62.2 | 43.1 | 41.4 | Daytime (7 a.m. - 7 p.m.)    | 42.0 | 59.2 | 36.8 | 34.6 |
| 8:00  | 50.1 | 73.7 | 43.7 | 41.3 | Nighttime (10 p.m. - 7 a.m.) | 31.5 | 39.2 | 31.3 | 30.4 |
| 9:00  | 45.9 | 64.9 | 42.4 | 39.1 |                              |      |      |      |      |
| 10:00 | 43.8 | 66.7 | 40.8 | 37.9 |                              |      |      |      |      |
| 11:00 | 45.4 | 59.4 | 42.8 | 40.4 |                              |      |      |      |      |
| 12:00 | 46.4 | 62.9 | 44.8 | 41.5 |                              |      |      |      |      |
| 13:00 | 44.4 | 66.6 | 42.7 | 40.5 |                              |      |      |      |      |
| 14:00 | 53.7 | 66.3 | 48.7 | 42.0 | Daytime (7 a.m. - 7 p.m.)    | 49.4 | 66.0 | 43.5 | 40.3 |
| 15:00 | 42.7 | 61.3 | 40.8 | 38.7 | Nighttime (10 p.m. - 7 a.m.) | 44.1 | 55.7 | 35.3 | 33.4 |
| 16:00 | 50.7 | 68.0 | 48.5 | 45.1 |                              |      |      |      |      |
| 17:00 | 54.9 | 73.3 | 50.8 | 46.2 |                              |      |      |      |      |
| 18:00 | 53.9 | 74.4 | 46.8 | 42.7 |                              |      |      |      |      |
| 19:00 | 42.1 | 61.3 | 36.8 | 34.6 |                              |      |      |      |      |
| 20:00 | 45.2 | 70.0 | 41.1 | 37.6 |                              |      |      |      |      |
| 21:00 | 42.0 | 59.2 | 39.4 | 36.2 |                              |      |      |      |      |
| 22:00 | 40.1 | 57.0 | 37.4 | 34.4 |                              |      |      |      |      |
| 23:00 | 39.0 | 59.2 | 35.3 | 33.1 |                              |      |      |      |      |
|       |      |      |      |      | Uppermost-Level              |      |      |      |      |
|       |      |      |      |      | Leq                          | Lmax | L50  | L90  |      |
|       |      |      |      |      | Daytime (7 a.m. - 7 p.m.)    | 54.9 | 74.4 | 50.8 | 46.2 |
|       |      |      |      |      | Nighttime (10 p.m. - 7 a.m.) | 51.4 | 73.0 | 46.1 | 42.5 |
|       |      |      |      |      | Energy Distribution          |      |      |      |      |
|       |      |      |      |      | Daytime                      | 85%  |      |      |      |
|       |      |      |      |      | Nighttime                    | 15%  |      |      |      |
|       |      |      |      |      | Calculated Ldn, dBA          |      |      |      |      |
|       |      |      |      |      | 51.8                         |      |      |      |      |

### Appendix G-3

Diamond Springs Community Park - LT2-A - Southwestern Corner of DSCP and Elementary School  
 May 08, 2023 to May 08, 2023





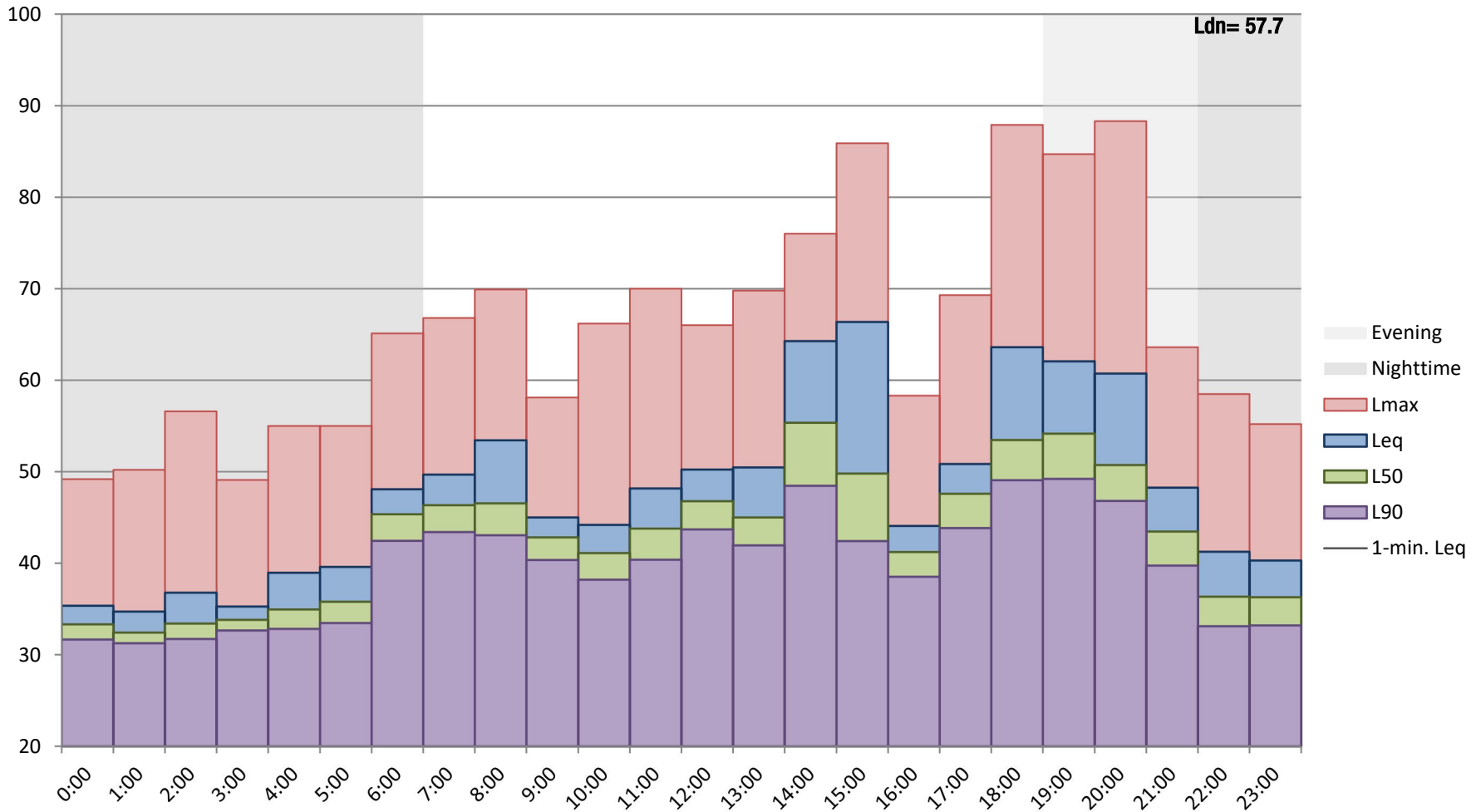
**Appendix G-3**  
**Long-Term 24 Hour Continuous Noise Monitoring**

**Project:** Diamond Springs Community Park  
**Date:** May 09, 2023 to May 09, 2023  
**Site:** LT2-B Southwestern Corner of DSCP and Elementary School

| Hour  | Leq   | Lmax | L50   | L90                          | Lowermost Level            |             |            |            |
|-------|-------|------|-------|------------------------------|----------------------------|-------------|------------|------------|
|       |       |      |       |                              | Leq                        | Lmax        | L50        | L90        |
| 0:00  | 35.3  | 49.2 | 33.3  | 31.7                         |                            |             |            |            |
| 1:00  | 34.7  | 50.2 | 32.4  | 31.2                         |                            |             |            |            |
| 2:00  | 36.8  | 56.6 | 33.4  | 31.7                         |                            |             |            |            |
| 3:00  | 35.3  | 49.1 | 33.8  | 32.6                         |                            |             |            |            |
| 4:00  | 39.0  | 55.0 | 34.9  | 32.8                         |                            |             |            |            |
| 5:00  | 39.6  | 55.0 | 35.8  | 33.5                         |                            |             |            |            |
| 6:00  | 48.1  | 65.1 | 45.4  | 42.4                         |                            |             |            |            |
| 7:00  | 49.7  | 66.8 | 46.4  | 43.4                         |                            |             |            |            |
| 8:00  | 53.4  | 69.9 | 46.5  | 43.1                         |                            |             |            |            |
| 9:00  | 45.0  | 58.1 | 42.8  | 40.3                         |                            |             |            |            |
| 10:00 | 44.2  | 66.2 | 41.1  | 38.2                         |                            |             |            |            |
| 11:00 | 48.2  | 70.0 | 43.8  | 40.4                         |                            |             |            |            |
| 12:00 | 50.2  | 66.0 | 46.8  | 43.7                         |                            |             |            |            |
| 13:00 | 50.5  | 69.8 | 45.0  | 42.0                         |                            |             |            |            |
| 14:00 | 64.3  | 76.0 | 55.4  | 48.5                         |                            |             |            |            |
| 15:00 | 66.4  | 85.9 | 49.8  | 42.4                         |                            |             |            |            |
| 16:00 | 44.1  | 58.3 | 41.2  | 38.5                         |                            |             |            |            |
| 17:00 | 50.8  | 69.3 | 47.6  | 43.9                         |                            |             |            |            |
| 18:00 | 63.6  | 87.9 | 53.5  | 49.1                         |                            |             |            |            |
| 19:00 | 62.1  | 84.7 | 54.1  | 49.2                         |                            |             |            |            |
| 20:00 | 60.7  | 88.3 | 50.7  | 46.8                         |                            |             |            |            |
| 21:00 | 48.2  | 63.6 | 43.5  | 39.8                         |                            |             |            |            |
| 22:00 | 41.2  | 58.5 | 36.3  | 33.1                         |                            |             |            |            |
| 23:00 | 40.3  | 55.2 | 36.3  | 33.2                         |                            |             |            |            |
| 45058 | 40.09 | 54.4 | 36.26 | 32.83                        |                            |             |            |            |
|       |       |      |       |                              | <b>Average Level</b>       |             |            |            |
|       |       |      |       |                              | <b>Leq</b>                 | <b>Lmax</b> | <b>L50</b> | <b>L90</b> |
|       |       |      |       | Daytime (7 a.m. - 7 p.m.)    | 44.1                       | 58.1        | 41.1       | 38.2       |
|       |       |      |       | Nighttime (10 p.m. - 7 a.m.) | 34.7                       | 49.1        | 32.4       | 31.2       |
|       |       |      |       |                              | <b>Uppermost-Level</b>     |             |            |            |
|       |       |      |       |                              | <b>Leq</b>                 | <b>Lmax</b> | <b>L50</b> | <b>L90</b> |
|       |       |      |       | Daytime (7 a.m. - 7 p.m.)    | 66.4                       | 88.3        | 55.4       | 49.2       |
|       |       |      |       | Nighttime (10 p.m. - 7 a.m.) | 48.1                       | 65.1        | 45.4       | 42.4       |
|       |       |      |       |                              | <b>Energy Distribution</b> |             |            |            |
|       |       |      |       | Daytime                      |                            |             |            | 99%        |
|       |       |      |       | Nighttime                    |                            |             |            | 1%         |
|       |       |      |       |                              | <b>Calculated Ldn, dBA</b> |             |            |            |
|       |       |      |       |                              | 57.7                       |             |            |            |

### Appendix G-3

Diamond Springs Community Park - LT2-B - Southwestern Corner of DSCP and Elementary School  
 May 09, 2023 to May 09, 2023



To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = **80**  
 allowable hours over which Leq is to be averaged = **8**

**55** = temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment          | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 8-hour Leq | Source Elevation (ft) | Receiver Elevation (ft) | Barrier Height (ft) | Source to Barr. ("A") Horiz. (ft) | Rcvr. to Barr. ("B") Horiz. (ft) | Source to Rcvr. ("C") Horiz. (ft) | "A" (ft) | "B" (ft) | "C" (ft) | Path Length Diff. "P" (ft) | Abarr (dB) | Heff (with barrier) | Heff (w/out barrier) | G (with barrier) | G (without barrier) | ILBarr (dB) |
|--|--------------------|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|----------------------|-----------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-----------------------------------|----------|----------|----------|----------------------------|------------|---------------------|----------------------|------------------|---------------------|-------------|
| Site Preparation                       | dozer              | 1                   | 40                     | 82                                     |  | 335                          | 0.1                                   |                            | 60.9                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer              | 1                   | 40                     | 82                                     |  | 335                          | 0.1                                   |                            | 60.9                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer              | 1                   | 40                     | 82                                     |  | 335                          | 0.1                                   |                            | 60.9                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe            | 1                   | 40                     | 78                                     |  | 60                           | 0.1                                   |                            | 76.3                   | 8                                | 480                                | 72                   | 5                     | 5                       | 0                   | 55                                | 5                                | 60                                | 55.2     | 7.1      | 60.0     | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader   | 1                   | 40                     | 79                                     |  | 335                          | 0.1                                   |                            | 57.9                   | 8                                | 480                                | 54                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader   | 1                   | 40                     | 79                                     |  | 335                          | 0.1                                   |                            | 57.9                   | 8                                | 480                                | 54                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor            | 1                   | 40                     | 84                                     |  | 305                          | 0.1                                   |                            | 63.8                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 300                               | 5                                | 305                               | 300.0    | 7.1      | 305.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Site Preparation Phase:      |                    |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>73.0</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Grading                                | excavator          | 1                   | 40                     | 81                                     |  | 335                          | 0.1                                   |                            | 59.9                   | 8                                | 480                                | 56                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator          | 1                   | 40                     | 81                                     |  | 335                          | 0.1                                   |                            | 59.9                   | 8                                | 480                                | 56                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader   | 1                   | 40                     | 79                                     |  | 335                          | 0.1                                   |                            | 57.9                   | 8                                | 480                                | 54                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper            | 1                   | 40                     | 84                                     |  | 335                          | 0.1                                   |                            | 62.9                   | 8                                | 480                                | 59                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper            | 1                   | 40                     | 84                                     |  | 335                          | 0.1                                   |                            | 62.9                   | 8                                | 480                                | 59                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | grader             | 1                   | 40                     | 85                                     |  | 335                          | 0.1                                   |                            | 63.9                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator          | 1                   | 40                     | 81                                     |  | 335                          | 0.1                                   |                            | 59.9                   | 8                                | 480                                | 56                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| dozer                                  | 1                  | 40                  | 82                     |  | 335  | 0.1                          |                                       | 60.9                       | 8                      | 480                              | 57                                 | 5                    | 5                     | 0                       | 330                 | 5                                 | 335                              | 330.0                             | 7.1      | 335.0    | 0.00     | 0.1                        | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| backhoe                                | 1                  | 40                  | 78                     |  | 60   | 0.1                          |                                       | 76.3                       | 8                      | 480                              | 72                                 | 5                    | 5                     | 0                       | 55                  | 5                                 | 60                               | 55.2                              | 7.1      | 60.0     | 0.00     | 0.1                        | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| Total for Grading Phase:               |                    |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>73.3</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Building Constructoin                  | man lift           | 1                   | 20                     | 75                                     |  | 605                          | 0.1                                   |                            | 48.2                   | 8                                | 480                                | 41                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift           | 1                   | 20                     | 75                                     |  | 605                          | 0.1                                   |                            | 48.2                   | 8                                | 480                                | 41                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift           | 1                   | 20                     | 75                                     |  | 605                          | 0.1                                   |                            | 48.2                   | 8                                | 480                                | 41                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe            | 1                   | 40                     | 78                                     |  | 605                          | 0.1                                   |                            | 51.2                   | 7                                | 420                                | 47                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | crane              | 1                   | 16                     | 81                                     |  | 605                          | 0.1                                   |                            | 54.2                   | 7                                | 420                                | 46                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | generator          | 1                   | 50                     | 72                                     |  | 605                          | 0.1                                   |                            | 45.2                   | 8                                | 480                                | 42                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader   | 1                   | 40                     | 79                                     |  | 605                          | 0.1                                   |                            | 52.2                   | 7                                | 420                                | 48                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | welder / torch     | 1                   | 40                     | 73                                     |  | 605                          | 0.1                                   |                            | 46.2                   | 8                                | 480                                | 42                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor            | 1                   | 40                     | 84                                     |  | 605                          | 0.1                                   |                            | 57.2                   | 7                                | 420                                | 53                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Building Constructoin Phase: |                    |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>56.0</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Paving                                 | paver              | 1                   | 50                     | 77                                     |  | 335                          | 0.1                                   |                            | 55.9                   | 8                                | 480                                | 53                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | paver              | 1                   | 50                     | 77                                     |  | 60                           | 0.1                                   |                            | 75.3                   | 8                                | 480                                | 72                   | 5                     | 5                       | 0                   | 55                                | 5                                | 60                                | 55.2     | 7.1      | 60.0     | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller             | 1                   | 20                     | 80                                     |  | 335                          | 0.1                                   |                            | 58.9                   | 8                                | 480                                | 52                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller             | 1                   | 20                     | 80                                     |  | 335                          | 0.1                                   |                            | 58.9                   | 8                                | 480                                | 52                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier | 1                   | 20                     | 85                                     |  | 335                          | 0.1                                   |                            | 63.9                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 330                               | 5                                | 335                               | 330.0    | 7.1      | 335.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| pavement scarafier                     | 1                  | 20                  | 85                     |  | 335  | 0.1                          |                                       | 63.9                       | 8                      | 480                              | 57                                 | 5                    | 5                     | 0                       | 330                 | 5                                 | 335                              | 330.0                             | 7.1      | 335.0    | 0.00     | 0.1                        | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| Total for Paving Phase:                |                    |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>72.6</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Architectural Coating                  | compressor (air)   | 1                   | 40                     | 78                                     |  | 605                          | 0.1                                   |                            | 51.2                   | 6                                | 360                                | 46                   | 5                     | 5                       | 0                   | 600                               | 5                                | 605                               | 600.0    | 7.1      | 605.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |                    |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>46.0</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = 80  
allowable hours over which Leq is to be averaged = 8

temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment                              | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 8-hour Leq | Source Elevation (ft) | Receiver Elevation (ft) | Barrier Height (ft) | Source to Barr. ("A") Horiz. (ft) | Rcvr. to Barr. ("B") Horiz. (ft) | Source to Rcvr. ("C") Horiz. (ft) | "A" (ft) | "B" (ft) | "C" (ft) | Path Length Diff. "P" (ft) | Abarr (dB) | Heff (with barrier) | Heff (w/out barrier) | G (with barrier) | G (without barrier) | ILbarr (dB) |
|--|--|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|----------------------|-----------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-----------------------------------|----------|----------|----------|----------------------------|------------|---------------------|----------------------|------------------|---------------------|-------------|
| Site Preparation                       | dozer                                  | 1                   | 40                     | 82                                     |  | 250                          | 0.1                                   |                            | 63.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                                  | 1                   | 40                     | 82                                     |  | 250                          | 0.1                                   |                            | 63.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                                  | 1                   | 40                     | 82                                     |  | 250                          | 0.1                                   |                            | 63.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                                | 1                   | 40                     | 78                                     |  | 110                          | 0.1                                   |                            | 68.5                   | 8                                | 480                                | 65                   | 5                     | 5                       | 0                   | 105                               | 5                                | 110                               | 105.1    | 7.1      | 110.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                       | 1                   | 40                     | 79                                     |  | 250                          | 0.1                                   |                            | 60.7                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                       | 1                   | 40                     | 79                                     |  | 250                          | 0.1                                   |                            | 60.7                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor                                | 1                   | 40                     | 84                                     |  | 250                          | 0.1                                   |                            | 65.7                   | 8                                | 480                                | 62                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Site Preparation Phase:      |  |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | 69.1                 |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Grading                                | excavator                              | 1                   | 40                     | 81                                     |  | 250                          | 0.1                                   |                            | 62.7                   | 8                                | 480                                | 59                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                              | 1                   | 40                     | 81                                     |  | 250                          | 0.1                                   |                            | 62.7                   | 8                                | 480                                | 59                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                       | 1                   | 40                     | 79                                     |  | 250                          | 0.1                                   |                            | 60.7                   | 8                                | 480                                | 57                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                                | 1                   | 40                     | 84                                     |  | 250                          | 0.1                                   |                            | 65.7                   | 8                                | 480                                | 62                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                                | 1                   | 40                     | 84                                     |  | 250                          | 0.1                                   |                            | 65.7                   | 8                                | 480                                | 62                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | grader                                 | 1                   | 40                     | 85                                     |  | 250                          | 0.1                                   |                            | 66.7                   | 8                                | 480                                | 63                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                              | 1                   | 40                     | 81                                     |  | 250                          | 0.1                                   |                            | 62.7                   | 8                                | 480                                | 59                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                                  | 1                   | 40                     | 82                                     |  | 250                          | 0.1                                   |                            | 63.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                                | 1                   | 40                     | 78                                     |  | 110                          | 0.1                                   |                            | 68.5                   | 8                                | 480                                | 65                   | 5                     | 5                       | 0                   | 105                               | 5                                | 110                               | 105.1    | 7.1      | 110.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Grading Phase:               |  |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | 70.6                 |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Building Constructoin                  | man lift                               | 1                   | 20                     | 75                                     |  | 325                          | 0.1                                   |                            | 54.2                   | 8                                | 480                                | 47                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                               | 1                   | 20                     | 75                                     |  | 325                          | 0.1                                   |                            | 54.2                   | 8                                | 480                                | 47                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                               | 1                   | 20                     | 75                                     |  | 325                          | 0.1                                   |                            | 54.2                   | 8                                | 480                                | 47                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                                | 1                   | 40                     | 78                                     |  | 325                          | 0.1                                   |                            | 57.2                   | 7                                | 420                                | 53                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | crane                                  | 1                   | 16                     | 81                                     |  | 325                          | 0.1                                   |                            | 60.2                   | 7                                | 420                                | 52                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | generator                              | 1                   | 50                     | 72                                     |  | 325                          | 0.1                                   |                            | 51.2                   | 8                                | 480                                | 48                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                       | 1                   | 40                     | 79                                     |  | 325                          | 0.1                                   |                            | 58.2                   | 7                                | 420                                | 54                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | welder / torch                         | 1                   | 40                     | 73                                     |  | 325                          | 0.1                                   |                            | 52.2                   | 8                                | 480                                | 48                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor                                | 1                   | 40                     | 84                                     |  | 325                          | 0.1                                   |                            | 63.2                   | 7                                | 420                                | 59                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | Total for Building Constructoin Phase: |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      | 62.0                  |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Paving                                 | paver                                  | 1                   | 50                     | 77                                     |  | 250                          | 0.1                                   |                            | 58.7                   | 8                                | 480                                | 56                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | paver                                  | 1                   | 50                     | 77                                     |  | 110                          | 0.1                                   |                            | 67.5                   | 8                                | 480                                | 65                   | 5                     | 5                       | 0                   | 105                               | 5                                | 110                               | 105.1    | 7.1      | 110.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                                 | 1                   | 20                     | 80                                     |  | 250                          | 0.1                                   |                            | 61.7                   | 8                                | 480                                | 55                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                                 | 1                   | 20                     | 80                                     |  | 250                          | 0.1                                   |                            | 61.7                   | 8                                | 480                                | 55                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                     | 1                   | 20                     | 85                                     |  | 250                          | 0.1                                   |                            | 66.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                     | 1                   | 20                     | 85                                     |  | 250                          | 0.1                                   |                            | 66.7                   | 8                                | 480                                | 60                   | 5                     | 5                       | 0                   | 245                               | 5                                | 250                               | 245.1    | 7.1      | 250.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Paving Phase:                |  |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | 67.6                 |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Architectural Coating                  | compressor (air)                       | 1                   | 40                     | 78                                     |  | 325                          | 0.1                                   |                            | 57.2                   | 6                                | 360                                | 52                   | 5                     | 5                       | 0                   | 320                               | 5                                | 325                               | 320.0    | 7.1      | 325.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |  |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | 51.9                 |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = **80**  
 allowable hours over which Leq is to be averaged = **8**

**245** = temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment                         | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 8-hour Leq | Source         | Receiver       | Barrier     | Source to               | Rcvr. to Barr.    | Source to               | "A" (ft)       | "B" (ft) | "C" (ft) | Path Length | Abarr (dB) | Heff (with barrier) | Heff (w/out barrier) | G (with barrier) | G (without barrier) | ILBarr (dB) |
|--|-----------------------------------|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|----------------------|----------------|----------------|-------------|-------------------------|-------------------|-------------------------|----------------|----------|----------|-------------|------------|---------------------|----------------------|------------------|---------------------|-------------|
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      | Elevation (ft) | Elevation (ft) | Height (ft) | Barr. ("A") Horiz. (ft) | ("B") Horiz. (ft) | Rcvr. ("C") Horiz. (ft) | Diff. "P" (ft) |          |          |             |            |                     |                      |                  |                     |             |
| Site Preparation                       | dozer                             | 1                   | 40                     | 82                                     |  | 512                          | 0.1                                   |                            | 56.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 512                          | 0.1                                   |                            | 56.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 512                          | 0.1                                   |                            | 56.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                           | 1                   | 40                     | 78                                     |  | 250                          | 0.1                                   |                            | 59.7                   | 8                                | 480                                | 56                   | 5              | 5              | 0           | 245                     | 5                 | 250                     | 245.1          | 7.1      | 250.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 512                          | 0.1                                   |                            | 53.8                   | 8                                | 480                                | 50                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 512                          | 0.1                                   |                            | 53.8                   | 8                                | 480                                | 50                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor                           | 1                   | 40                     | 84                                     |  | 512                          | 0.1                                   |                            | 58.8                   | 8                                | 480                                | 55                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | Total for Site Preparation Phase: |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>61.6</b>          |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
| Grading                                | excavator                         | 1                   | 40                     | 81                                     |  | 512                          | 0.1                                   |                            | 55.8                   | 8                                | 480                                | 52                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                         | 1                   | 40                     | 81                                     |  | 512                          | 0.1                                   |                            | 55.8                   | 8                                | 480                                | 52                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 512                          | 0.1                                   |                            | 53.8                   | 8                                | 480                                | 50                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                           | 1                   | 40                     | 84                                     |  | 512                          | 0.1                                   |                            | 58.8                   | 8                                | 480                                | 55                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                           | 1                   | 40                     | 84                                     |  | 512                          | 0.1                                   |                            | 58.8                   | 8                                | 480                                | 55                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | grader                            | 1                   | 40                     | 85                                     |  | 512                          | 0.1                                   |                            | 59.8                   | 8                                | 480                                | 56                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                         | 1                   | 40                     | 81                                     |  | 512                          | 0.1                                   |                            | 55.8                   | 8                                | 480                                | 52                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 512                          | 0.1                                   |                            | 56.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| backhoe                                | 1                                 | 40                  | 78                     |  | 250  | 0.1                          |                                       | 59.7                       | 8                      | 480                              | 56                                 | 5                    | 5              | 0              | 245         | 5                       | 250               | 245.1                   | 7.1            | 250.0    | 0.00     | 0.1         | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| Total for Grading Phase:               |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>63.2</b>          |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
| Building Constructoin                  | man lift                          | 1                   | 20                     | 75                                     |  | 695                          | 0.1                                   |                            | 46.8                   | 8                                | 480                                | 40                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                          | 1                   | 20                     | 75                                     |  | 695                          | 0.1                                   |                            | 46.8                   | 8                                | 480                                | 40                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                          | 1                   | 20                     | 75                                     |  | 695                          | 0.1                                   |                            | 46.8                   | 8                                | 480                                | 40                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                           | 1                   | 40                     | 78                                     |  | 695                          | 0.1                                   |                            | 49.8                   | 7                                | 420                                | 45                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | crane                             | 1                   | 16                     | 81                                     |  | 695                          | 0.1                                   |                            | 52.8                   | 7                                | 420                                | 44                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | generator                         | 1                   | 50                     | 72                                     |  | 695                          | 0.1                                   |                            | 43.8                   | 8                                | 480                                | 41                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 695                          | 0.1                                   |                            | 50.8                   | 7                                | 420                                | 46                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | welder / torch                    | 1                   | 40                     | 73                                     |  | 695                          | 0.1                                   |                            | 44.8                   | 8                                | 480                                | 41                   | 5              | 5              | 0           | 690                     | 5                 | 695                     | 690.0          | 7.1      | 695.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| tractor                                | 1                                 | 40                  | 84                     |  | 695  | 0.1                          |                                       | 55.8                       | 7                      | 420                              | 51                                 | 5                    | 5              | 0              | 690         | 5                       | 695               | 690.0                   | 7.1            | 695.0    | 0.00     | 0.1         | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| Total for Building Constructoin Phase: |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>54.6</b>          |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
| Paving                                 | paver                             | 1                   | 50                     | 77                                     |  | 512                          | 0.1                                   |                            | 51.8                   | 8                                | 480                                | 49                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | paver                             | 1                   | 50                     | 77                                     |  | 250                          | 0.1                                   |                            | 58.7                   | 8                                | 480                                | 56                   | 5              | 5              | 0           | 245                     | 5                 | 250                     | 245.1          | 7.1      | 250.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                            | 1                   | 20                     | 80                                     |  | 512                          | 0.1                                   |                            | 54.8                   | 8                                | 480                                | 48                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                            | 1                   | 20                     | 80                                     |  | 512                          | 0.1                                   |                            | 54.8                   | 8                                | 480                                | 48                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                | 1                   | 20                     | 85                                     |  | 512                          | 0.1                                   |                            | 59.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                | 1                   | 20                     | 85                                     |  | 512                          | 0.1                                   |                            | 59.8                   | 8                                | 480                                | 53                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Paving Phase:                |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>59.8</b>          |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
| Architectural Coating                  | compressor (air)                  | 1                   | 40                     | 78                                     |  | 512                          | 0.1                                   |                            | 52.8                   | 6                                | 360                                | 48                   | 5              | 5              | 0           | 507                     | 5                 | 512                     | 507.0          | 7.1      | 512.0    | 0.00        | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>47.6</b>          |                |                |             |                         |                   |                         |                |          |          |             |            |                     |                      |                  |                     |             |

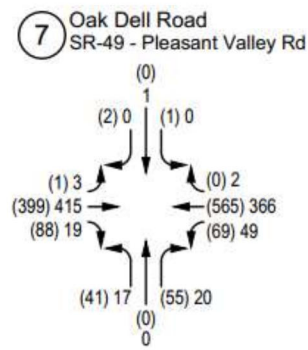
To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at residential land use, per FTA guidance = **80**  
 allowable hours over which Leq is to be averaged = **8**

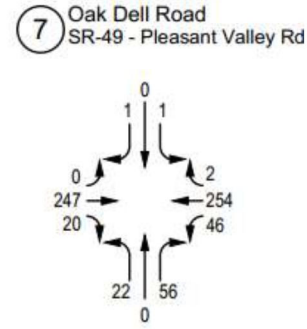
  = temporary barrier (TB) of input height inserted between source and receptor

| Construction Activity                  | Equipment                         | Total Equipment Qty | AUF % (from FHWA RCNM) | Reference Lmax @ 50 ft. from FHWA RCNM | Client Equipment Description, Data Source and/or Notes | Source to NSR Distance (ft.) | Temporary Barrier Insertion Loss (dB) | Additional Noise Reduction | Distance-Adjusted Lmax | Allowable Operation Time (hours) | Allowable Operation Time (minutes) | Predicted 8-hour Leq | Source Elevation (ft) | Receiver Elevation (ft) | Barrier Height (ft) | Source to Barr. ("A") Horiz. (ft) | Rcvr. to Barr. ("B") Horiz. (ft) | Source to Rcvr. ("C") Horiz. (ft) | "A" (ft) | "B" (ft) | "C" (ft) | Path Length Diff. "P" (ft) | Abarr (dB) | Heff (with barrier) | Heff (w/out barrier) | G (with barrier) | G (without barrier) | ILBarr (dB) |
|--|-----------------------------------|---------------------|------------------------|--|--|------------------------------|---------------------------------------|----------------------------|------------------------|----------------------------------|------------------------------------|----------------------|-----------------------|-------------------------|---------------------|-----------------------------------|----------------------------------|-----------------------------------|----------|----------|----------|----------------------------|------------|---------------------|----------------------|------------------|---------------------|-------------|
| Site Preparation                       | dozer                             | 1                   | 40                     | 82                                     |  | 735                          | 0.1                                   |                            | 53.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 735                          | 0.1                                   |                            | 53.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 735                          | 0.1                                   |                            | 53.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                           | 1                   | 40                     | 78                                     |  | 595                          | 0.1                                   |                            | 51.3                   | 8                                | 480                                | 47                   | 5                     | 5                       | 0                   | 590                               | 5                                | 595                               | 590.0    | 7.1      | 595.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 735                          | 0.1                                   |                            | 50.3                   | 8                                | 480                                | 46                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 735                          | 0.1                                   |                            | 50.3                   | 8                                | 480                                | 46                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor                           | 1                   | 40                     | 84                                     |  | 735                          | 0.1                                   |                            | 55.3                   | 8                                | 480                                | 51                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | Total for Site Preparation Phase: |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>57.3</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Grading                                | excavator                         | 1                   | 40                     | 81                                     |  | 735                          | 0.1                                   |                            | 52.3                   | 8                                | 480                                | 48                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                         | 1                   | 40                     | 81                                     |  | 735                          | 0.1                                   |                            | 52.3                   | 8                                | 480                                | 48                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 735                          | 0.1                                   |                            | 50.3                   | 8                                | 480                                | 46                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                           | 1                   | 40                     | 84                                     |  | 735                          | 0.1                                   |                            | 55.3                   | 8                                | 480                                | 51                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | scraper                           | 1                   | 40                     | 84                                     |  | 735                          | 0.1                                   |                            | 55.3                   | 8                                | 480                                | 51                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | grader                            | 1                   | 40                     | 85                                     |  | 735                          | 0.1                                   |                            | 56.3                   | 8                                | 480                                | 52                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | excavator                         | 1                   | 40                     | 81                                     |  | 735                          | 0.1                                   |                            | 52.3                   | 8                                | 480                                | 48                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | dozer                             | 1                   | 40                     | 82                                     |  | 735                          | 0.1                                   |                            | 53.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| backhoe                                | 1                                 | 40                  | 78                     |  | 595  | 0.1                          |                                       | 51.3                       | 8                      | 480                              | 47                                 | 5                    | 5                     | 0                       | 590                 | 5                                 | 595                              | 590.0                             | 7.1      | 595.0    | 0.00     | 0.1                        | 5.0        | 5.0                 | 0.7                  | 0.7              | 0.1                 |             |
| Total for Grading Phase:               |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>59.2</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Building Constructoin                  | man lift                          | 1                   | 20                     | 75                                     |  | 1705                         | 0.1                                   |                            | 37.9                   | 8                                | 480                                | 31                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                          | 1                   | 20                     | 75                                     |  | 1705                         | 0.1                                   |                            | 37.9                   | 8                                | 480                                | 31                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | man lift                          | 1                   | 20                     | 75                                     |  | 1705                         | 0.1                                   |                            | 37.9                   | 8                                | 480                                | 31                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | backhoe                           | 1                   | 40                     | 78                                     |  | 1705                         | 0.1                                   |                            | 40.9                   | 7                                | 420                                | 36                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | crane                             | 1                   | 16                     | 81                                     |  | 1705                         | 0.1                                   |                            | 43.9                   | 7                                | 420                                | 35                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | generator                         | 1                   | 50                     | 72                                     |  | 1705                         | 0.1                                   |                            | 34.9                   | 8                                | 480                                | 32                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | front end loader                  | 1                   | 40                     | 79                                     |  | 1705                         | 0.1                                   |                            | 41.9                   | 7                                | 420                                | 37                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | welder / torch                    | 1                   | 40                     | 73                                     |  | 1705                         | 0.1                                   |                            | 35.9                   | 8                                | 480                                | 32                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | tractor                           | 1                   | 40                     | 84                                     |  | 1705                         | 0.1                                   |                            | 46.9                   | 7                                | 420                                | 42                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Building Constructoin Phase: |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>45.7</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Paving                                 | paver                             | 1                   | 50                     | 77                                     |  | 735                          | 0.1                                   |                            | 48.3                   | 8                                | 480                                | 45                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | paver                             | 1                   | 50                     | 77                                     |  | 595                          | 0.1                                   |                            | 50.3                   | 8                                | 480                                | 47                   | 5                     | 5                       | 0                   | 590                               | 5                                | 595                               | 590.0    | 7.1      | 595.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                            | 1                   | 20                     | 80                                     |  | 735                          | 0.1                                   |                            | 51.3                   | 8                                | 480                                | 44                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | roller                            | 1                   | 20                     | 80                                     |  | 735                          | 0.1                                   |                            | 51.3                   | 8                                | 480                                | 44                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                | 1                   | 20                     | 85                                     |  | 735                          | 0.1                                   |                            | 56.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
|  | pavement scarafier                | 1                   | 20                     | 85                                     |  | 735                          | 0.1                                   |                            | 56.3                   | 8                                | 480                                | 49                   | 5                     | 5                       | 0                   | 730                               | 5                                | 735                               | 730.0    | 7.1      | 735.0    | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Paving Phase:                |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>55.0</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
| Architectural Coating                  | compressor (air)                  | 1                   | 40                     | 78                                     |  | 1705                         | 0.1                                   |                            | 40.9                   | 6                                | 360                                | 36                   | 5                     | 5                       | 0                   | 1700                              | 5                                | 1705                              | 1700.0   | 7.1      | 1705.0   | 0.00                       | 0.1        | 5.0                 | 5.0                  | 0.7              | 0.7                 | 0.1         |
| Total for Architectural Coating Phase: |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    |                      |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |
|  |                                   |                     |                        |  |  |                              |                                       |                            |                        |                                  |                                    | <b>35.7</b>          |                       |                         |                     |                                   |                                  |                                   |          |          |          |                            |            |                     |                      |                  |                     |             |

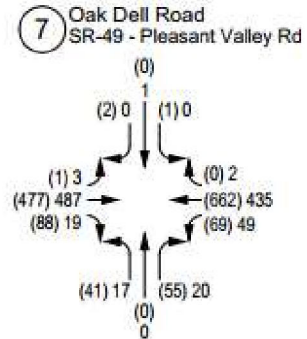
**Existing** fig 8 from Aug 2023 TIA  
weekday



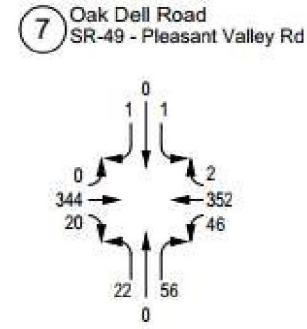
**Existing** fig 9 from Aug 2023 TIA  
Saturday



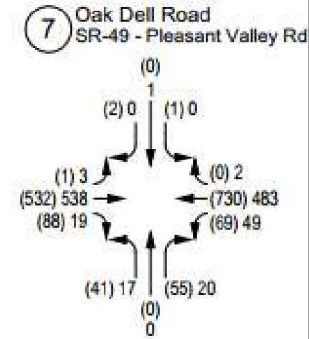
**Near T** fig 12 from Aug 2023 TIA  
weekday



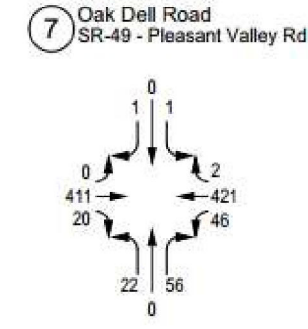
**Near T** fig 13 from Aug 2023 TIA  
Saturday



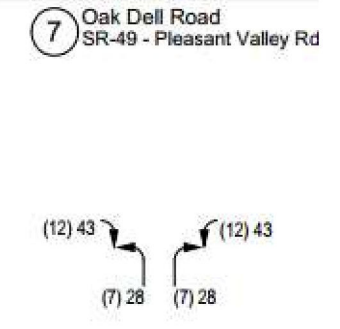
**Cumul** fig 16 from Aug 2023 TIA  
weekday



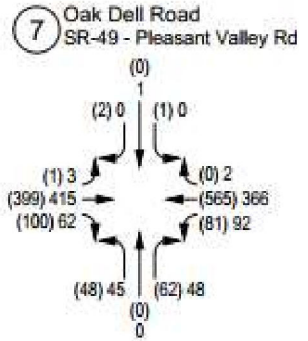
**Cumul** fig 17 from Aug 2023 TIA  
Saturday



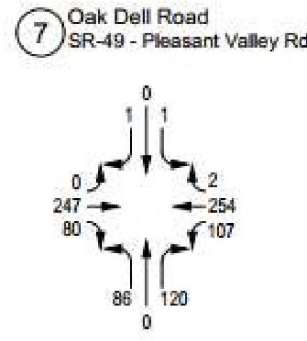
**Project** fig 6A from Aug 2023 TIA  
Weekday



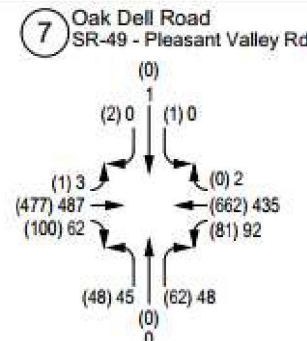
**Ex+Proj** fig 10 from Aug 2023 TIA  
weekday



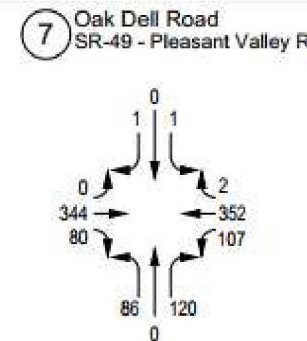
**Ex+Proj** fig 11 from Aug 2023 TIA  
Saturday



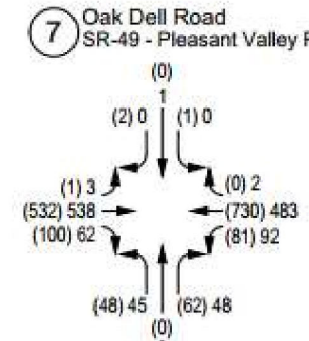
**NT+Proj** fig 14 from Aug 2023 TIA  
weekday



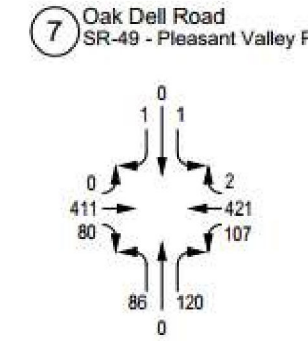
**NT+Proj** fig 15 from Aug 2023 TIA  
Saturday



**Cumul+P** fig 18 from Aug 2023 TIA  
weekday



**Cumul+P** fig 19 from Aug 2023 TIA  
Saturday



**Project** fig 6B from Aug 2023 TIA  
Saturday



**Dudek Aug. 2023 TIA reference:**

| Intersection                                    | Fig. 8                  |                       | Fig. 12                  |                        | Fig. 16             |                   | Fig. 6A                |                      | Fig. 10                     |                           | Fig. 14                  |                        | Fig. 18                    |                          |
|---|-------------------------|-----------------------|--------------------------|------------------------|---------------------|-------------------|------------------------|----------------------|-----------------------------|---------------------------|--------------------------|------------------------|----------------------------|--------------------------|
|   | Existing Peak Hour (AM) | Existing Peak Hour PM | Near-Term Peak Hour (AM) | Near-Term Peak Hour PM | 2040 Peak Hour (AM) | 2040 Peak Hour PM | Project Peak Hour (AM) | Project Peak Hour PM | Exist + Proj Peak Hour (AM) | Exist + Proj Peak Hour PM | NT + Proj Peak Hour (AM) | NT + Proj Peak Hour PM | 2040 + Proj Peak Hour (AM) | 2040 + Proj Peak Hour PM |
| <b>Intersection 7 (SR-49 and Oak Dell Road)</b> |                         |                       |                          |                        |                     |                   |                        |                      |                             |                           |                          |                        |                            |                          |
| SB  | 0                       | 1                     | 0                        | 1                      | 0                   | 1                 | 0                      | 0                    | 0                           | 1                         | 0                        | 1                      | 0                          | 1                        |
| SBL   | 1                       | 0                     | 1                        | 0                      | 1                   | 0                 | 0                      | 0                    | 1                           | 0                         | 1                        | 0                      | 1                          | 0                        |
| SBR   | 2                       | 0                     | 2                        | 0                      | 2                   | 0                 | 0                      | 0                    | 2                           | 0                         | 2                        | 0                      | 2                          | 0                        |
| WB  | 565                     | 366                   | 662                      | 435                    | 730                 | 483               | 0                      | 0                    | 565                         | 366                       | 662                      | 435                    | 730                        | 483                      |
| WBL   | 69                      | 49                    | 69                       | 49                     | 69                  | 49                | 12                     | 43                   | 81                          | 92                        | 81                       | 92                     | 81                         | 92                       |
| WBR   | 0                       | 2                     | 0                        | 2                      | 0                   | 2                 | 0                      | 0                    | 0                           | 2                         | 0                        | 2                      | 0                          | 2                        |
| NB  | 0                       | 0                     | 0                        | 0                      | 0                   | 0                 | 0                      | 0                    | 0                           | 0                         | 0                        | 0                      | 0                          | 0                        |
| NBL   | 41                      | 17                    | 41                       | 17                     | 41                  | 17                | 7                      | 28                   | 48                          | 45                        | 48                       | 45                     | 48                         | 45                       |
| NBR   | 55                      | 20                    | 55                       | 20                     | 55                  | 20                | 7                      | 28                   | 62                          | 48                        | 62                       | 48                     | 62                         | 48                       |
| EB  | 399                     | 415                   | 477                      | 487                    | 532                 | 538               | 0                      | 0                    | 399                         | 415                       | 477                      | 487                    | 532                        | 538                      |
| EBL   | 1                       | 3                     | 1                        | 3                      | 1                   | 3                 | 0                      | 0                    | 1                           | 3                         | 1                        | 3                      | 1                          | 3                        |
| EBR   | 88                      | 19                    | 88                       | 19                     | 88                  | 19                | 12                     | 43                   | 100                         | 62                        | 100                      | 62                     | 100                        | 62                       |
| <b>Studied Segment</b>                          |                         |                       |                          |                        |                     |                   |                        |                      |                             |                           |                          |                        |                            |                          |
| Oak Dell Road North of SR-49                    | 4                       | 6                     | 4                        | 6                      | 4                   | 6                 | 0                      | 0                    | 4                           | 6                         | 4                        | 6                      | 4                          | 6                        |
| Oak Dell Road South of SR-49                    | 253                     | 106                   | 253                      | 106                    | 253                 | 141               | 38                     | 142                  | 291                         | 248                       | 291                      | 248                    | 291                        | 283                      |
| SR-49 West of Oak Dell Road                     | 1096                    | 820                   | 1271                     | 961                    | 1394                | 1060              | 19                     | 71                   | 1115                        | 891                       | 1290                     | 1032                   | 1413                       | 1131                     |
| SR-49 East of Oak Dell Road                     | 1089                    | 852                   | 1264                     | 993                    | 1387                | 1127              | 19                     | 71                   | 1108                        | 923                       | 1283                     | 1064                   | 1406                       | 1198                     |



**Dudek Aug. 2023 TIA reference:**

|   | Fig. 9<br>Existing Peak Hour<br>Midday | Fig. 13<br>Near-Term Peak<br>Hour Midday | Fig. 17<br>2040 Peak Hour<br>Midday | Fig. 6B<br>Project Peak Hour<br>Midday | Fig. 11<br>Exist + Proj Peak<br>Hour Midday | Fig. 15<br>NT + Proj Peak<br>Hour Midday | Fig. 19<br>2040 + Proj Peak<br>Hour Midday |
|---|--|--|-------------------------------------|--|---|--|--|
| <u>Intersection</u>                             |  |  |                                     |  |   |  |  |
| <b>Intersection 7 (SR-49 and Oak Dell Road)</b> |  |  |                                     |  |   |  |  |
| SB  | 0                                      | 0  | 0                                   | 0                                      | 0   | 0  | 0  |
| SBL   | 1                                      | 1  | 1                                   | 0                                      | 1   | 1  | 1  |
| SBR   | 1                                      | 1  | 1                                   | 0                                      | 1   | 1  | 1  |
| WB  | 254                                    | 352                                      | 421                                 | 0                                      | 254   | 352                                      | 421  |
| WBL   | 46                                     | 46                                       | 46                                  | 61                                     | 107   | 107                                      | 107  |
| WBR   | 2                                      | 2  | 2                                   | 0                                      | 2   | 2  | 2  |
| NB  | 0                                      | 0  | 0                                   | 0                                      | 0   | 0  | 0  |
| NBL   | 22                                     | 22                                       | 22                                  | 64                                     | 86  | 86                                       | 86   |
| NBR   | 56                                     | 56                                       | 56                                  | 64                                     | 120   | 120                                      | 120  |
| EB  | 247                                    | 344                                      | 411                                 | 0                                      | 247   | 344                                      | 411  |
| EBL   | 0                                      | 0  | 0                                   | 0                                      | 0   | 0  | 0  |
| EBR   | 20                                     | 20                                       | 20                                  | 60                                     | 80  | 80                                       | 80   |
| <u>Studied Segment</u>                          |  |  |                                     |  |   |  |  |
| Oak Dell Road North of SR-49                    | 4                                      | 4  | 4                                   | 0                                      | 4   | 4  | 4  |
| Oak Dell Road South of SR-49                    | 144                                    | 144                                      | 144                                 | 249                                    | 393   | 393                                      | 393  |
| SR-49 West of Oak Dell Road                     | 544                                    | 739                                      | 875                                 | 124                                    | 668   | 863                                      | 999  |
| SR-49 East of Oak Dell Road                     | 606                                    | 801                                      | 937                                 | 125                                    | 731   | 926                                      | 1062                                       |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             |            |                |                  |                   |
|-------------|------------|----------------|------------------|-------------------|
|             | <b>Day</b> | <b>Evening</b> | <b>Nighttime</b> | <b>Equivalent</b> |
| <b>Auto</b> | 72.48%     | 9.06%          | 9.06%            | 191.7%            |
| <b>MT</b>   | 5.48%      | 0.68%          | 0.68%            | 14.5%             |
| <b>HT</b>   | 2.04%      | 0.26%          | 0.26%            | 5.4%              |

| Study Year or Condition | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|-------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Existing</b>         | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                         | Oak Dell Road South of SR-49             | 2,530                         | 20          | 49.2                | 50.9              | 53.4              | 56.3                |
|                         | SR-49 West of Oak Dell Road              | 10,960                        | 45          | 65.7                | 62.8              | 63.0              | 68.8                |
|                         | SR-49 East of Oak Dell Road              | 10,890                        | 45          | 65.7                | 62.7              | 63.0              | 68.8                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle %                            | Trk 3-axle % | Trk 4-axle %          | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|---|--------------|-----------------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86                                   | 8.63         | 3.14                  | 15.29        |
|       |          |        |          |     |                             |            |            |         |            |            |            |            | "medium truck" (MT, 2-axle) percentage: | 6.84884      | "heavy truck" (HT) %: | 2.55116      |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       | <span style="border: 1px solid black; padding: 2px;">80.00%</span> |
| MT (%) | <b>6.85%</b>  | Evening   | <span style="border: 1px solid black; padding: 2px;">10.00%</span> |
| HT (%) | <b>2.55%</b>  | Nighttime | <span style="border: 1px solid black; padding: 2px;">10.00%</span> |

**Traffic Percentages by Vehicle Type**

|      | Day    | Evening | Nighttime | Equivalent |
|------|--------|---------|-----------|------------|
| Auto | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| MT   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| HT   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition   | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|---------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Existing + Project</b> | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                           | Oak Dell Road South of SR-49             | 2,910                         | 20          | 49.8                | 51.5              | 54.0              | 56.9                |
|                           | SR-49 West of Oak Dell Road              | 11,150                        | 45          | 65.8                | 62.8              | 63.1              | 68.9                |
|                           | SR-49 East of Oak Dell Road              | 11,080                        | 45          | 65.7                | 62.8              | 63.0              | 68.9                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 0.6 | 0.6 | 0.6 | 0.6 |
| SR-49 West of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |
| SR-49 East of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             | Day    | Evening | Nighttime | Equivalent |
|-------------|--------|---------|-----------|------------|
| <b>Auto</b> | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| <b>MT</b>   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| <b>HT</b>   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|-------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Near Term (2033)</b> | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                         | Oak Dell Road South of SR-49             | 2,530                         | 20          | 49.2                | 50.9              | 53.4              | 56.3                |
|                         | SR-49 West of Oak Dell Road              | 12,710                        | 45          | 66.3                | 63.4              | 63.6              | 69.4                |
|                         | SR-49 East of Oak Dell Road              | 12,640                        | 45          | 66.3                | 63.4              | 63.6              | 69.4                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: **Diamond Spring Community Park**

| User Inputs (boxed cells) |        |
|---------------------------|--------|
| Auto %                    | 90.60% |
| MT (%)                    | 6.85%  |
| HT (%)                    | 2.55%  |

|           |        |
|-----------|--------|
| Day       | 80.00% |
| Evening   | 10.00% |
| Nighttime | 10.00% |

**Traffic Percentages by Vehicle Type**

|      | Day    | Evening | Nighttime | Equivalent |
|------|--------|---------|-----------|------------|
| Auto | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| MT   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| HT   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition    | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|----------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| Near Term (2033) + Project | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                            | Oak Dell Road South of SR-49             | 2,910                         | 20          | 49.8                | 51.5              | 54.0              | 56.9                |
|                            | SR-49 West of Oak Dell Road              | 12,900                        | 45          | 66.4                | 63.5              | 63.7              | 69.5                |
|                            | SR-49 East of Oak Dell Road              | 12,830                        | 45          | 66.4                | 63.4              | 63.7              | 69.5                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884 "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 0.6 | 0.6 | 0.6 | 0.6 |
| SR-49 West of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |
| SR-49 East of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             | Day    | Evening | Nighttime | Equivalent |
|-------------|--------|---------|-----------|------------|
| <b>Auto</b> | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| <b>MT</b>   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| <b>HT</b>   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition  | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|--------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Cumulative (2040)</b> | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                          | Oak Dell Road South of SR-49             | 2,530                         | 20          | 49.2                | 50.9              | 53.4              | 56.3                |
|                          | SR-49 West of Oak Dell Road              | 13,940                        | 45          | 66.7                | 63.8              | 64.0              | 69.9                |
|                          | SR-49 East of Oak Dell Road              | 13,870                        | 45          | 66.7                | 63.8              | 64.0              | 69.8                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle %                            | Trk 3-axle % | Trk 4-axle %          | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|---|--------------|-----------------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86                                   | 8.63         | 3.14                  | 15.29        |
|       |          |        |          |     |                             |            |            |         |            |            |            |            | "medium truck" (MT, 2-axle) percentage: | 6.84884      | "heavy truck" (HT) %: | 2.55116      |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |        |
|--------|---------------|-----------|--------|
| Auto % | <b>90.60%</b> | Day       | 80.00% |
| MT (%) | <b>6.85%</b>  | Evening   | 10.00% |
| HT (%) | <b>2.55%</b>  | Nighttime | 10.00% |

**Traffic Percentages by Vehicle Type**

|      | Day    | Evening | Nighttime | Equivalent |
|------|--------|---------|-----------|------------|
| Auto | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| MT   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| HT   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition            | Roadway Segment and Direction of Traffic | Average Weekday Traffic (AWT) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|------------------------------------|--|-------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Cumulative (2040) + Project</b> | Oak Dell Road North of SR-49             | 40                            | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                                    | Oak Dell Road South of SR-49             | 2,910                         | 20          | 49.8                | 51.5              | 54.0              | 56.9                |
|                                    | SR-49 West of Oak Dell Road              | 14,130                        | 45          | 66.8                | 63.9              | 64.1              | 69.9                |
|                                    | SR-49 East of Oak Dell Road              | 14,060                        | 45          | 66.8                | 63.8              | 64.1              | 69.9                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 0.6 | 0.6 | 0.6 | 0.6 |
| SR-49 West of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |
| SR-49 East of Oak Dell Road  | 0.1 | 0.1 | 0.1 | 0.1 |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             | Day    | Evening | Nighttime | Equivalent |
|-------------|--------|---------|-----------|------------|
| <b>Auto</b> | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| <b>MT</b>   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| <b>HT</b>   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|-------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Existing</b>         | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                         | Oak Dell Road South of SR-49             | 1,440                          | 20          | 46.7                | 48.5              | 50.9              | 53.8                |
|                         | SR-49 West of Oak Dell Road              | 5,440                          | 45          | 62.7                | 59.7              | 60.0              | 65.8                |
|                         | SR-49 East of Oak Dell Road              | 6,060                          | 45          | 63.1                | 60.2              | 60.4              | 66.2                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle %                            | Trk 3-axle % | Trk 4-axle %          | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|---|--------------|-----------------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86                                   | 8.63         | 3.14                  | 15.29        |
|       |          |        |          |     |                             |            |            |         |            |            |            |            | "medium truck" (MT, 2-axle) percentage: | 6.84884      | "heavy truck" (HT) %: | 2.55116      |



**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |        |
|--------|---------------|-----------|--------|
| Auto % | <b>90.60%</b> | Day       | 80.00% |
| MT (%) | <b>6.85%</b>  | Evening   | 10.00% |
| HT (%) | <b>2.55%</b>  | Nighttime | 10.00% |

**Traffic Percentages by Vehicle Type**

|      | Day    | Evening | Nighttime | Equivalent |
|------|--------|---------|-----------|------------|
| Auto | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| MT   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| HT   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition   | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|---------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Existing + Project</b> | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                           | Oak Dell Road South of SR-49             | 3,930                          | 20          | 51.1                | 52.8              | 55.3              | 58.2                |
|                           | SR-49 West of Oak Dell Road              | 6,680                          | 45          | 63.5                | 60.6              | 60.8              | 66.7                |
|                           | SR-49 East of Oak Dell Road              | 7,310                          | 45          | 63.9                | 61.0              | 61.2              | 67.0                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 4.4 | 4.4 | 4.4 | 4.4 |
| SR-49 West of Oak Dell Road  | 0.9 | 0.9 | 0.9 | 0.9 |
| SR-49 East of Oak Dell Road  | 0.8 | 0.8 | 0.8 | 0.8 |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             | Day    | Evening | Nighttime | Equivalent |
|-------------|--------|---------|-----------|------------|
| <b>Auto</b> | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| <b>MT</b>   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| <b>HT</b>   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|-------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Near Term (2033)</b> | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                         | Oak Dell Road South of SR-49             | 1,440                          | 20          | 46.7                | 48.5              | 50.9              | 53.8                |
|                         | SR-49 West of Oak Dell Road              | 7,390                          | 45          | 64.0                | 61.1              | 61.3              | 67.1                |
|                         | SR-49 East of Oak Dell Road              | 8,010                          | 45          | 64.3                | 61.4              | 61.6              | 67.4                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |        |
|--------|---------------|-----------|--------|
| Auto % | <b>90.60%</b> | Day       | 80.00% |
| MT (%) | <b>6.85%</b>  | Evening   | 10.00% |
| HT (%) | <b>2.55%</b>  | Nighttime | 10.00% |

**Traffic Percentages by Vehicle Type**

|      | Day    | Evening | Nighttime | Equivalent |
|------|--------|---------|-----------|------------|
| Auto | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| MT   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| HT   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition           | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|-----------------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Near Term (2033) + Project</b> | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                                   | Oak Dell Road South of SR-49             | 3,930                          | 20          | 51.1                | 52.8              | 55.3              | 58.2                |
|                                   | SR-49 West of Oak Dell Road              | 8,630                          | 45          | 64.7                | 61.7              | 62.0              | 67.8                |
|                                   | SR-49 East of Oak Dell Road              | 9,260                          | 45          | 65.0                | 62.0              | 62.3              | 68.1                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 4.4 | 4.4 | 4.4 | 4.4 |
| SR-49 West of Oak Dell Road  | 0.7 | 0.7 | 0.7 | 0.7 |
| SR-49 East of Oak Dell Road  | 0.6 | 0.6 | 0.6 | 0.6 |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       |  |
| MT (%) | <b>6.85%</b>  | Evening   |  |
| HT (%) | <b>2.55%</b>  | Nighttime |  |

|               |
|---------------|
| <b>80.00%</b> |
| <b>10.00%</b> |
| <b>10.00%</b> |

**Traffic Percentages by Vehicle Type**

|             | Day    | Evening | Nighttime | Equivalent |
|-------------|--------|---------|-----------|------------|
| <b>Auto</b> | 72.48% | 9.06%   | 9.06%     | 191.7%     |
| <b>MT</b>   | 5.48%  | 0.68%   | 0.68%     | 14.5%      |
| <b>HT</b>   | 2.04%  | 0.26%   | 0.26%     | 5.4%       |

| Study Year or Condition  | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|--------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Cumulative (2040)</b> | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                          | Oak Dell Road South of SR-49             | 1,440                          | 20          | 46.7                | 48.5              | 50.9              | 53.8                |
|                          | SR-49 West of Oak Dell Road              | 8,750                          | 45          | 64.7                | 61.8              | 62.0              | 67.8                |
|                          | SR-49 East of Oak Dell Road              | 9,370                          | 45          | 65.0                | 62.1              | 62.3              | 68.1                |

[data below from 2019 Caltrans truck AADT](#)

| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle %                            | Trk 3-axle % | Trk 4-axle %          | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|---|--------------|-----------------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86                                   | 8.63         | 3.14                  | 15.29        |
|       |          |        |          |     |                             |            |            |         |            |            |            |            | "medium truck" (MT, 2-axle) percentage: | 6.84884      | "heavy truck" (HT) %: | 2.55116      |

**Roadway Traffic Noise Prediction (CNEL)  
(FHWA RD-77-108, using Calveno curves)**

Project: Diamond Spring Community Park

|        |               |           |  |
|--------|---------------|-----------|--|
| Auto % | <b>90.60%</b> | Day       | <span style="border: 1px solid black; padding: 2px;">80.00%</span> |
| MT (%) | <b>6.85%</b>  | Evening   | <span style="border: 1px solid black; padding: 2px;">10.00%</span> |
| HT (%) | <b>2.55%</b>  | Nighttime | <span style="border: 1px solid black; padding: 2px;">10.00%</span> |

**Traffic Percentages by Vehicle Type**

|             |            |                |                  |                   |
|-------------|------------|----------------|------------------|-------------------|
|             | <b>Day</b> | <b>Evening</b> | <b>Nighttime</b> | <b>Equivalent</b> |
| <b>Auto</b> | 72.48%     | 9.06%          | 9.06%            | 191.7%            |
| <b>MT</b>   | 5.48%      | 0.68%          | 0.68%            | 14.5%             |
| <b>HT</b>   | 2.04%      | 0.26%          | 0.26%            | 5.4%              |

| Study Year or Condition            | Roadway Segment and Direction of Traffic | Average Saturday Traffic (AST) | Speed (mph) | Auto Noise (at 15m) | MT Noise (at 15m) | HT Noise (at 15m) | CNEL Total (at 15m) |
|------------------------------------|--|--------------------------------|-------------|---------------------|-------------------|-------------------|---------------------|
| <b>Cumulative (2040) + Project</b> | Oak Dell Road North of SR-49             | 40                             | 20          | 31.2                | 32.9              | 35.4              | 38.3                |
|                                    | Oak Dell Road South of SR-49             | 3,930                          | 20          | 51.1                | 52.8              | 55.3              | 58.2                |
|                                    | SR-49 West of Oak Dell Road              | 9,990                          | 45          | 65.3                | 62.4              | 62.6              | 68.4                |
|                                    | SR-49 East of Oak Dell Road              | 10,620                         | 45          | 65.6                | 62.6              | 62.9              | 68.7                |

[data below from 2019 Caltrans truck AADT](#)

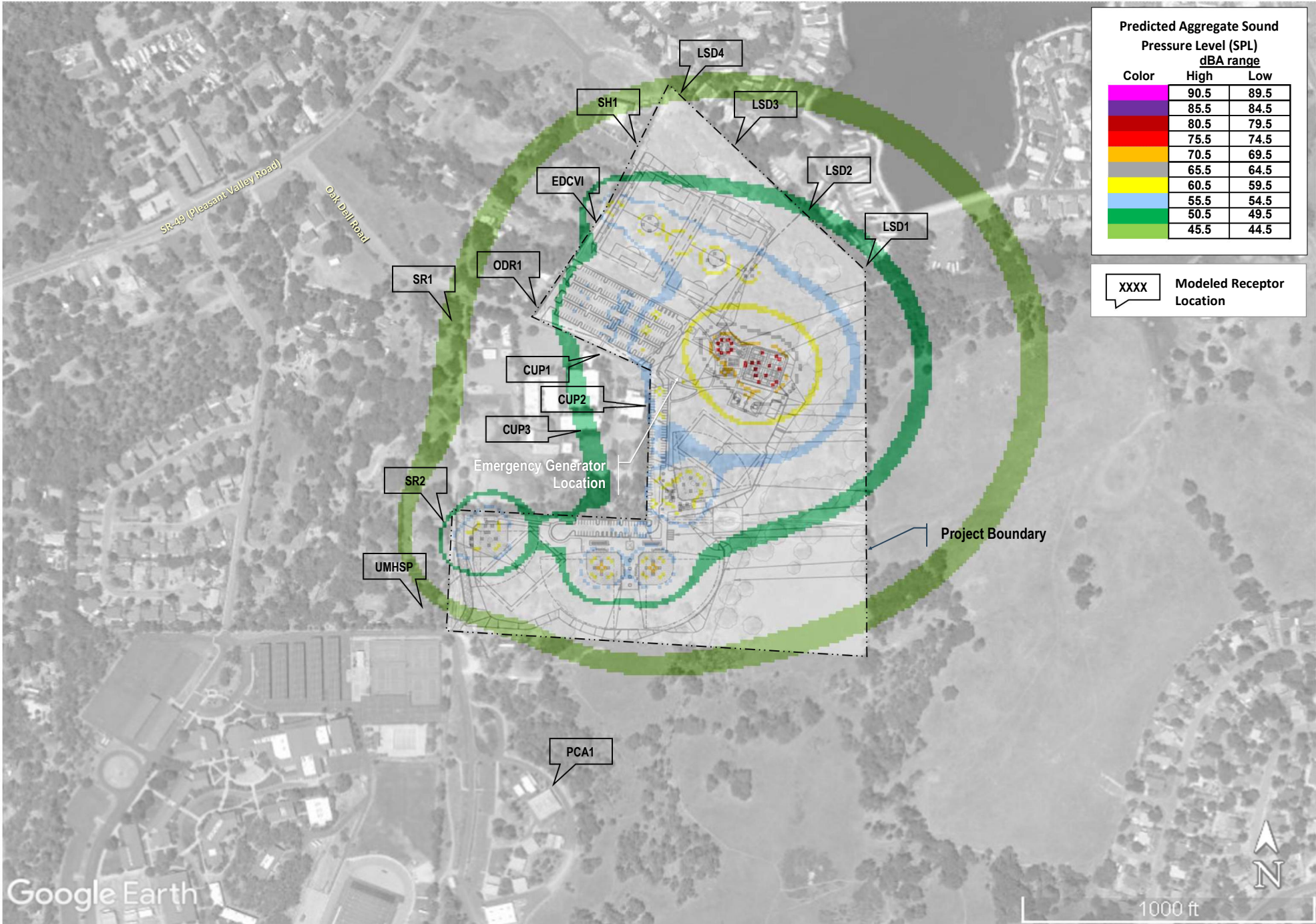
| Route | District | County | Postmile | Leg | Description of Intersection | Total AADT | Truck AADT | Truck % | Trk 2-axle | Trk 3-axle | Trk 4-axle | Trk 5-axle | Trk 2-axle % | Trk 3-axle % | Trk 4-axle % | Trk 5-axle % |
|-------|----------|--------|----------|-----|-----------------------------|------------|------------|---------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| 49    | 3        | ED     | 9.641    | A   | Pleasant Valley Road        | 10300      | 972        | 9.4     | 708        | 84         | 31         | 149        | 72.86        | 8.63         | 3.14         | 15.29        |

"medium truck" (MT, 2-axle) percentage: 6.84884      "heavy truck" (HT) %: 2.55116

**CNEL differences (with and without Project)**

|                              |     |     |     |     |
|------------------------------|-----|-----|-----|-----|
| Oak Dell Road North of SR-49 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oak Dell Road South of SR-49 | 4.4 | 4.4 | 4.4 | 4.4 |
| SR-49 West of Oak Dell Road  | 0.6 | 0.6 | 0.6 | 0.6 |
| SR-49 East of Oak Dell Road  | 0.5 | 0.5 | 0.5 | 0.5 |





Google Earth

SOURCE: Google 2023; Dudgeon 2023

**DUDEK**



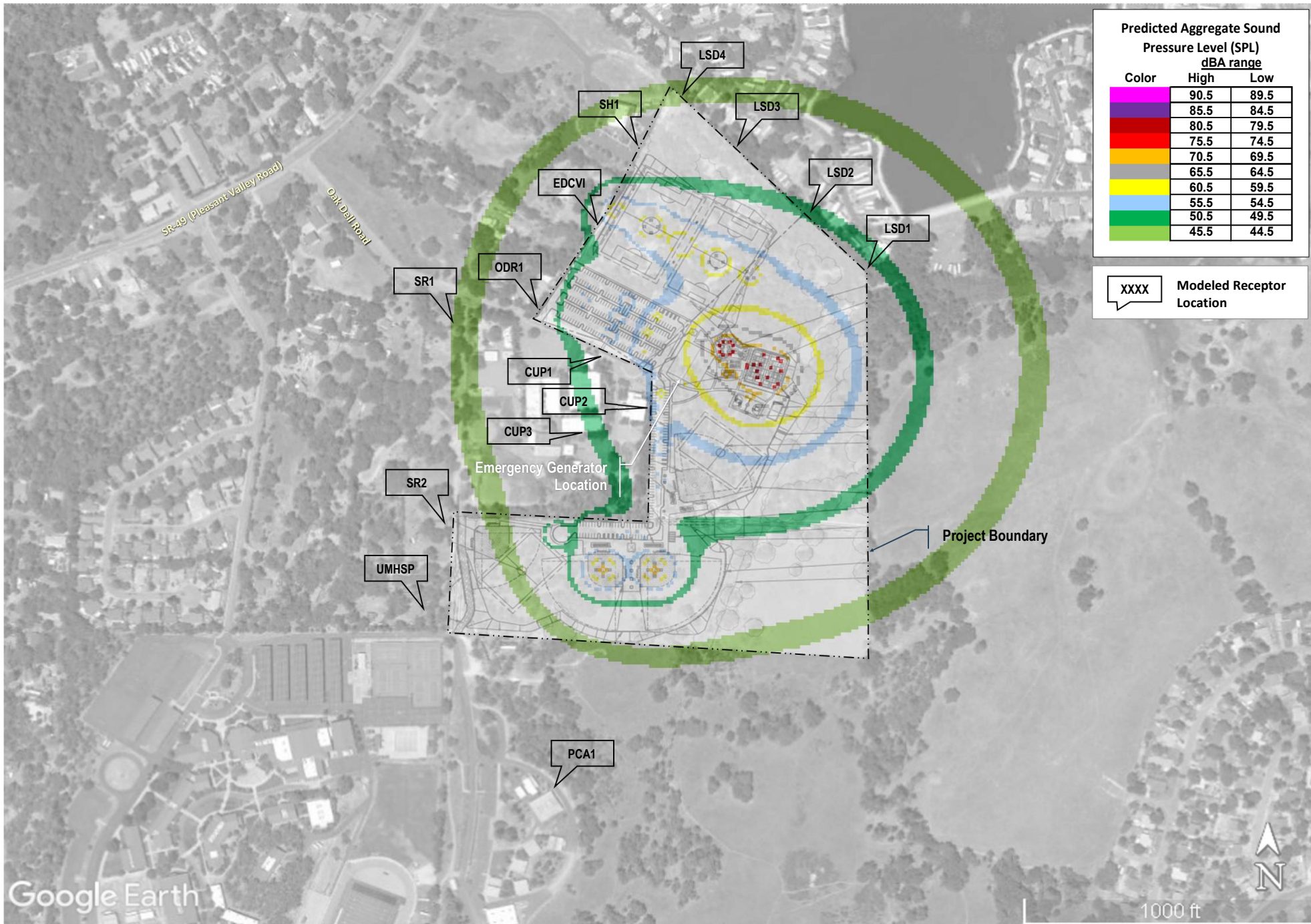
0 117 234 Feet

**FIGURE G-1**  
**Predicted Operation Noise - Daytime (7:00 a.m. to 7:00 p.m.) Usage of All Project Facilities Sports Fields**

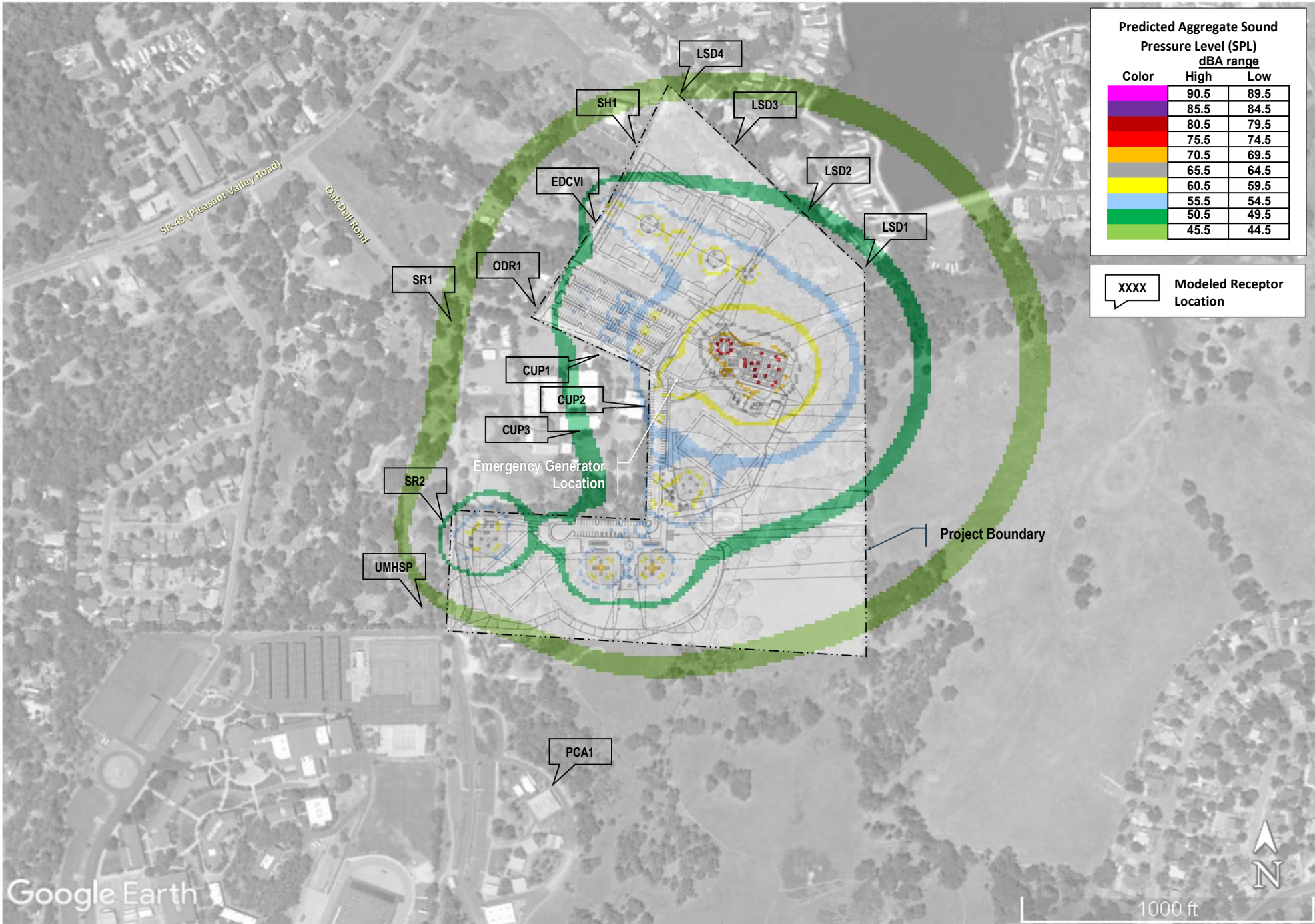
Diamond Springs Community Park (Dudgeon Project No. 14324)



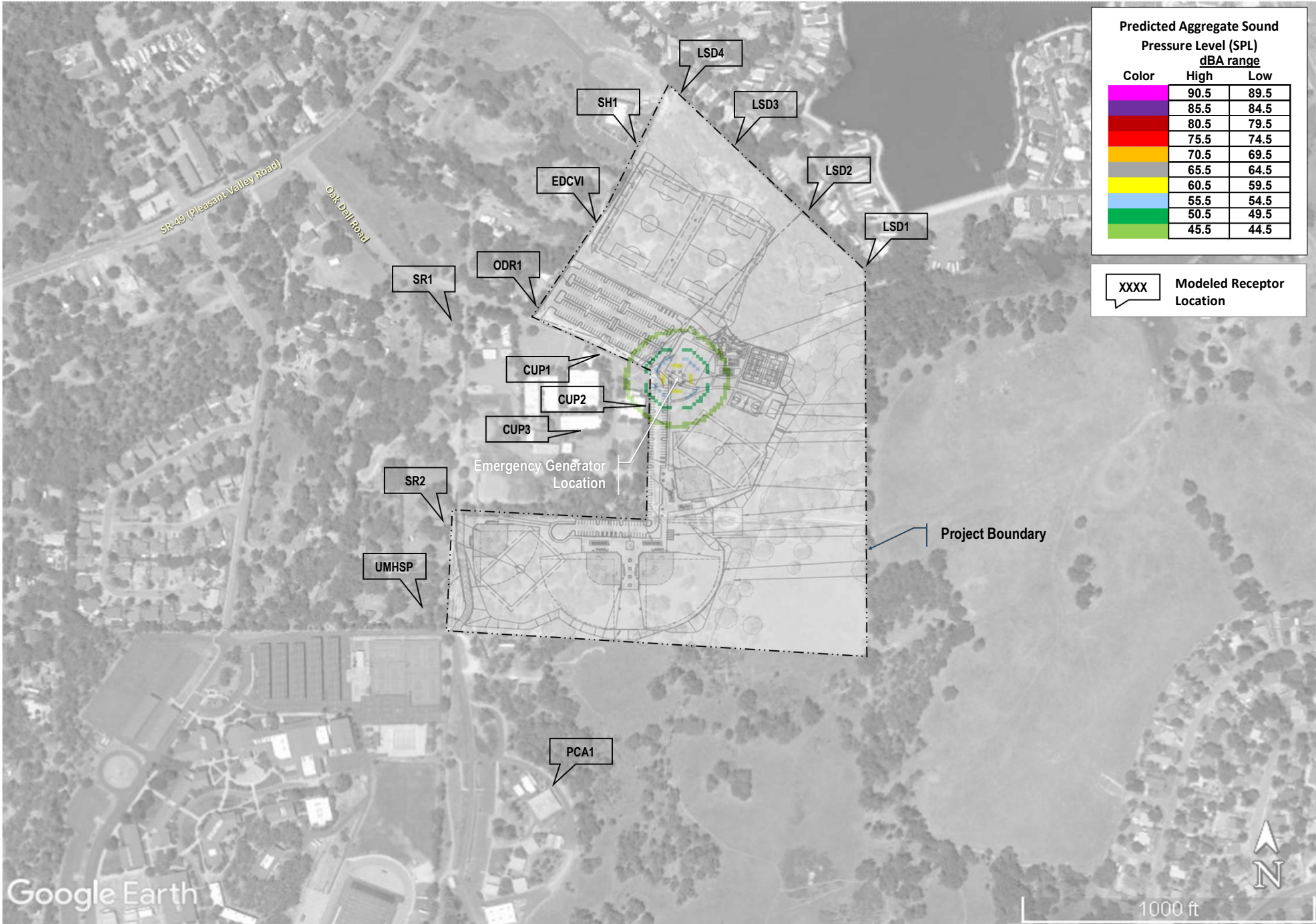












SOURCE: Google 2023; Dudek 2023



FIGURE G-4  
Predicted Operation Noise - HVAC Systems & Testing of Emergency Generator (test requires 20 minutes, hourly Leq)

Diamond Springs Community Park (Dudek Project No. 14324)



Diamond Springs Community Park Draft EIR

Onsite Stationary Operations Noise Model Input Inventory

grid axis feet To User: enter the Source number in the outlined cells.

x 11.6959064  
y 11.6959064

| Custom Source Description  | Tag   | SPL(dBA) | Notes                                       |
|--|-------|----------|---|
| this is intended to "clear" the cumulative+source on a "Reset" click         | CLEAR | -40      | additional notes below for Custom sources:  |
| youth or adult soccer game or practice L25 at 30m                            | SOC   | 52       | Hayne (2006), Table 1                       |
| youth or adult baseball game or practice L25 at 30m                          | BAS   | 52       | Hayne (2006), Table 1                       |
| eight people (+9 dB) "loud speaking" at 1m (66 dBA), half the time (-3 dB)   | 8LS   | 78       | Hayne (2006), Table 2                       |
| Pickleball Play (one court, at 20 feet)                                      | PKLBL | 77       | Dudek confidential project                  |
| idling passenger vehicle (1m)  | IPV   | 69       | CadnaA                                      |
| 5-ton Bryant Air Conditioner   | 5TON  | 62       | Bryant BH16-060                             |
| emer. diesel-fueled generator test at 23 ft, 20-min. duration (-4.8 dB) test | K120  | 66       | Kohler 120REOZT4 (base of 71 dBA at 23 ft.) |
| restroom exhaust fan at 1m   | XFAN  | 50       | ENC 2nd ed. Calcs                           |
| eight kids (+9 dB) shouting at 1m (80 dBA) during play, half-time (-3 dB)    | PLAY  | 93       | Hayne (2006), Table 2                       |
| Custom #10 (user input)  | 0     | 0        | 0   |
| Custom #11 (user input)  | 0     | 0        | 0   |
| Custom #12 (user input)  | 0     | 0        | 0   |

| Source                          | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9          | 10         | 11         | 12         | 13         | 14         | 15         | 16        | 17         | 18         | 19         | 20         |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|
| Source Tag                      | ULC        | LSF1SW     | LSF1SE     | LSF2SW     | LSF2SE     | LSF1       | LSF2       | PLN1       | PLN2       | PLN3       | PLN4       | PLN5       | PLN6       | PLN7       | PLN8       | PLN9      | PLS1       | PLS2       | PLS3       | PLS4       |
| Source X-coordinate             | 11.6959064 | 2105.26316 | 2327.48538 | 2327.48538 | 2561.40351 | 2222.22222 | 2444.44444 | 2011.69591 | 2140.35088 | 2245.61404 | 1988.30409 | 2105.26316 | 2210.52632 | 1964.91228 | 2081.87135 | 2187.1345 | 2257.30994 | 2257.30994 | 2257.30994 | 2245.61404 |
| Source Y-coordinate             | 11.6959064 | 760.233918 | 877.192982 | 888.888889 | 994.152047 | 818.71345  | 947.368421 | 1017.54386 | 1087.7193  | 1146.19883 | 1087.7193  | 1146.19883 | 1204.67836 | 1157.89474 | 1216.37427 | 1274.8538 | 1426.90058 | 1520.46784 | 1625.73099 | 1742.69006 |
| Source Z-coordinate             | 6          | 6          | 6          | 6          | 6          | 6          | 6          | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3         | 3          | 3          | 3          | 3          |
| Source Type (enter abbrev.)     | CLEAR      | 8LS        | 8LS        | 8LS        | 8LS        | BAS        | BAS        | IPV        | IPV        | IPV        | IPV        | IPV        | IPV        | IPV        | IPV        | IPV       | IPV        | IPV        | IPV        | IPV        |
| Source Reference SPL            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          | 0          |
| Source Reference Distance (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          | 0          |
| Source Height Above Grade (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0          | 0          | 0          | 0          |

| Source                          | 21         | 22         | 23         | 24         | 25         | 26         | 27         | 28         | 29         | 30         | 31         | 32         | 33         | 34         | 35         | 36         | 37         | 38         | 39         | 40         |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Source Tag                      | PLS5       | PLS6       | PLS7       | PLS8       | PLS9       | RX1        | RX2        | PA1        | PN1        | PN2        | PB1        | PB2        | PB3        | PB4        | EG1        | BB1        | BBS1       | USB1       | USB2       | LSB1       |
| Source X-coordinate             | 2233.91813 | 2198.83041 | 2116.95906 | 2023.39181 | 1894.73684 | 2362.5731  | 2152.04678 | 2479.53216 | 2502.92398 | 2479.53216 | 2584.79532 | 2643.27485 | 2573.09942 | 2631.57895 | 2315.78947 | 2549.7076  | 2561.40351 | 2362.5731  | 1672.51462 | 2233.91813 |
| Source Y-coordinate             | 1836.25731 | 1929.82456 | 1929.82456 | 1918.12865 | 1941.52047 | 1204.67836 | 1988.30409 | 1263.15789 | 1321.63743 | 1356.72515 | 1309.94152 | 1321.63743 | 1356.72515 | 1380.11696 | 1380.11696 | 1473.68421 | 1438.59649 | 1766.08187 | 1964.91228 | 2070.17544 |
| Source Z-coordinate             | 3          | 3          | 3          | 3          | 3          | 12         | 12         | 6          | 4          | 4          | 3.5        | 3.5        | 3.5        | 3.5        | 6          | 6          | 6          | 6          | 6          | 6          |
| Source Type (enter abbrev.)     | IPV        | IPV        | IPV        | IPV        | IPV        | XFAN       | XFAN       | PLAY       | 8LS        | 8LS        | PKLBL      | PKLBL      | PKLBL      | PKLBL      | K120       | 8LS        | 8LS        | BAS        | BAS        | BAS        |
| Source Reference SPL            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Reference Distance (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Height Above Grade (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |

| Source                          | 41         | 42         | 43         | 44         | 45         | 46         | 47         | 48         | 49         | 50         | 51         | 52         | 53         | 54         | 55         | 56         | 57         | 58         | 59         | 60         |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Source Tag                      | LSB2       | USB1SW     | USB1SS     | USB2SW     | USB2SN     | IG1        | S047       | S048       | S049       | S050       | S051       | S052       | S053       | S054       | S055       | S056       | S057       | S058       | S059       | S060       |
| Source X-coordinate             | 2058.47953 | 2292.39766 | 2339.18129 | 1602.33918 | 1672.51462 | 2339.18129 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 |
| Source Y-coordinate             | 2070.17544 | 1801.16959 | 1847.95322 | 1976.60819 | 1906.43275 | 1391.81287 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 | -11.695906 |
| Source Z-coordinate             | 6          | 6          | 6          | 6          | 6          | 12         | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Type (enter abbrev.)     | BAS        | 8LS        | 8LS        | 8LS        | 8LS        | 5TON       | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Reference SPL            | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Reference Distance (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
| Source Height Above Grade (ft.) | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |

